Owners Handbook

2003 Motorhomes

All the illustrations and descriptive matter in this handbook are intended to give a general idea of the Motorhome. Changing market and supply situations may prevent us from maintaining the exact specification details in this handbook and we therefore reserve the right to alter specifications as materials and conditions demand.

Please check current details with your dealer and inspect the motorhome to ensure it is satisfactory before purchase. Dealers are not agents and have absolutely no authority to bind Explorer Group Limited by any express or implied undertaking or representation.

Model _____

Model Year 2003

Motorhome Serial No. _____

Chassis No. _____

Key No. _____

Overall Length _____

Overall Width _____

Overall Height _____

M.I.R.O. _____

User Payload _____

M.T.P.L.M. _____

Tyre Size _____

Tyre Pressures:

Front _____ Rear _____

Explorer Group on the Net - www.explorer-group.co.uk

Whilst we make every effort to include all the necessary information required within our owners' handbook, from time to time the information may change or be updated. If you have any queries that are not covered the following options are available:

1. Visit the Explorer Group on-line at www.explorer-group.co.uk you will find that the site has a comprehensive guide to all of the models we produce as well as other useful information that is regularly updated.
2. E-mail your queries to enquires@explorer-group.co.uk and we will endeavour to respond with the answers you require as soon as possible.
3. Alternatively, if the information you require is not available on our web site, or you do not have access to the internet, please call our Customer Services Department on 01207 699000. Our knowledgeable and friendly staff will be happy to help you.

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Castaway
compass
Castaway
RG

WELCOME TO THE WORLD OF MOTORHOMES

You are now the owner of a quality Motorhome. The Owners Handbook has been prepared for your guidance to help you derive the greatest amount of pleasure from the use of your Motorhome. It is recommend that you read the pages of this Handbook thoroughly so that you are fully conversant with all the Motorhome systems. If there is anything you wish to know which this Handbook fails to cover we are sure that your Authorised Dealer will be pleased to help.

NOTE:

All coach built motor caravans are classified as Grade 2 which meet with the thermal insulation and heat levels for specific climatic conditions.

IMPORTANT:

The serial number of your motorhome should be quoted in all correspondence, it can be found stamped on a plate fixed beneath the motorhome door.

There is also a serial no. on the chassis cab or pillar, which should also be quoted.

Your motorhome serial number can also be found on the NCC certificate which can be found within your user pack.

Your Authorised Dealer will be able to supply any replacement parts for your Motorhome, should the need arise, along with any accessories you may require. Please note that it is not possible to purchase replacement parts or accessories direct from the manufacturer.

We are sure you will have many happy times with your Motorhome but please remember a happy carefree time is based on proper, thorough and responsible preparation, careful driving with regard to 'The Rules of the Road', other road users and above all ensuring your Motorhome is in a first class roadworthy condition. It is recommended that your Motorhome is serviced by an Authorised Dealer once every twelve months.

FIRE RETARDANT FOAMS

Under the Condition of the Consumer Protection Act 1987, manufacturers have a responsibility to ensure that their product is as safe as possible.

With this in mind all Motorhomes are equipped with Combustion Modified High Resilient (C.M.H.R.) foam cushions or sprung mattresses. These foams are very much safer from a fire point of view than those previously used. In addition all upholstery is made of fire retardant fabric.

INTRODUCTION

WATER INGRESS CODE OF PRACTICE

CONSUMER GUARANTEE

We at The Explorer Group Ltd. want our customers to be sure that in buying one of our products, you are buying the very best. We would like you to continue to believe this for a long time after you have made your purchase.

We are confident that our new products, built with innovative manufacturing techniques and tested materials, make water ingress concerns unnecessary.

In fact, we are so confident of our new products that we have issued a 'Code of Practice' which gives certain guarantees to our customers, both consumers and dealers, of financial reimbursement of repair costs should problems occur.

THE CODE

The code applies to all new Explorer Group products manufactured after 1st September 1998.

All customers with documentary proof of annual services by an approved Explorer Group Ltd. dealer or service centre, will be paid in full for the costs of repairs due to water ingress for up to 5 years from the date of purchase of a new product.

Customers without a full service history may receive up to 100% of the costs of repair for water ingress damage in year 2 of ownership, up to 75% in year 3, up to 50% in year 4 and up to 25% in year 5. Each case will be examined on its merit. The Explorer Group Ltd. will decide the amount of contribution towards the repair costs.

Customers who bought new motorhomes between September 1996 and August 1998 will also be covered under this code providing they have documentary proof of annual services by approved Explorer Group Ltd. dealers or service centres.

Customers exchanging their current Explorer Group model for a new Explorer Group model will not have the value of their part exchange reduced due to potential water ingress issues, provided there is documentary evidence that the motorhome has been annually serviced and that it is less than 5 years old.

CONDITIONS ATTACHED TO THE CODE

- Repairs may only be carried out after approval by The Explorer Group Ltd. or the insurance company that provides the extended warranty (dependent upon individual circumstances).
- The Explorer Group Ltd. or the company that provides the extended warranty will pay the costs of repairs, only after approved work has been carried out.
- The Code is not retrospective. Motorhomes traded in prior to implementation of the Code are not covered.
- In the case of dispute, The Caravan Club will agree with The Explorer Group Ltd., the appointment of an independent arbitrator. The Explorer Group Ltd, will pay for the costs of arbitration subject to the consumer paying a £100 deposit.
- If the arbitrator finds in favour of the consumer, then the deposit will be returned. If the arbitrator finds in favour of The Explorer Group Ltd., the consumer will lose the deposit.
- Where the arbitrator awards a sum of money less than an offer made by The Explorer Group Ltd., which has already been rejected by the consumer, then the deposit is forfeited.
- The arbitrator's decision is final and both parties must agree to abide by the decision.

Note: The Explorer Group Ltd. warranties may be transferred to a second owner for a small fee.

MOTORHOME CODE

The purpose of introducing a Code of Conduct for Motor Caravanners is to be seen to be doing all we can as an industry to ensure that motor caravans are looked on sympathetically by legislators and other opinion formers.

The main elements should cover such things as responsible camping, safe and considerate driving, parking, and other areas where a motor caravanner could cause abuse or nuisance if he or she is not careful.

Here is a brief outline of the main points:

ON SITE

- Keep to roadways unless otherwise directed.
- Adhere to speed limits. Note that these are generally 10mph. (Remember that the stopping distance on grass in considerably greater than on Tarmac.)
- Ensure that all fresh water taps/connections are turned off after use.
- Have care and consideration when using all facilities (toilets and showers etc) and leave clean and tidy. Young children should be escorted.
- If the vehicle is not fitted with a waste water tank a suitable receptacle should be put below all waste water pipes. Do not let these containers overflow,
- Dispose of all waste water where instructed.
- Empty effluent from chemical toilets where instructed.
- Put all litter in containers marked for the purpose.
- Do not make excessive noise.
- Petrol generators, unless silenced, should be used with consideration.
- All dogs and other pets should be kept under control.
- Adhere and take note of all fire precautions noting the whereabouts of the fire points.
- Unless permission has been granted barbecues should not be used. When permission has been given consideration should be given to the annoyance that can be caused to other users of the site. Similarly, open fires are not allowed.
- Awnings and tents should only be used when permission has been obtained.
- Leave the pitch clean and tidy.
- On leaving, check out with the reception paying the required dues.
- Camping away from licensed sites, without the land owners or his agents permission, is not allowed in the United Kingdom.

ON THE ROAD

- Motor caravans should only be parked in approved places.
- When using a motor caravan on either the public highway or private roads the Highway Code should be complied with and full consideration given to other road users.
- In the event of a motor caravan travelling slowly and there being a queue of traffic behind, the driver of the motor caravan should, where possible, pull over in order to let the other traffic pass.
- Before using a motor caravan all aspects of the handbooks produced by the chassis manufacturer and the converter must be read and adhered to.
- Care and consideration should be taken to protect the environment.
- Observe the Country and Coastal Codes.
- When ignition is on all 12V ceases except fridge.

A full copy of the Motor Caravanners' Code can be obtained from the SMMT (Society of Motor Manufacturers and Traders).

SAFETY RECOMMENDATIONS

GENERAL SAFETY

In order for you to get the most out of your new Explorer Group caravan it is necessary for you to be aware of the following.

1. Do not obstruct ventilators.
2. Inspect the flexible gas hose regularly for deterioration and renew as necessary, with approved type, and in any case no later than the expiry date stated on the hose.
3. It is recommended that you provide a dry powder fire extinguisher complying with ISO 7165 of at least 1 KG capacity by the exit door and a fire blanket next to the cooker. Ensure you read the 'advice to occupier label' fitted to your caravan.
4. Never use portable cooking or heating equipment inside your caravan. Do not use your fitted cooking equipment as heating at any time.
5. Never allow modification to your gas or electrical system unless qualified persons carry them out. All modification to the gas system should be carried out by a CORGI registered gas fitter. Any modifications carried out on the electrical system should be carried out by an electrician on the roll of the NICEIC or be a member of the ECA.
6. Never exceed your caravans Maximum Technical Permissible Laden Mass.
7. Never exceed the caravan or your cars maximum nose weight whichever is the lower.
8. Care shall be taken against the risk of falling out when children, especially under 3 years of age, use the upper bunk.
9. Ensure heavy and large items are secured before towing your new caravan to reduce the risk of damage being caused while the caravan is in motion.
10. Turn off all gas appliances and turn off the gas supply before towing your caravan.
11. Do not leave children under 14 years of age unattended in your caravan.
12. When your caravan is connected to your towing vehicle it should be level or slightly nose down. An excessive nose down attitude or a nose up attitude could lead to instability when towing.

VENTILATION

All caravans manufactured by the Explorer Group Limited are ventilated at both high and low level in accordance with BSEN 721 Safety Ventilation. The fixed ventilation points fitted in your caravan must not be blocked under any circumstances as your safety may depend upon them.

It is advisable that the fixed ventilation points are checked and cleaned (where necessary) on a regular basis.

HIGH-LEVEL VENTILATION

This is always provided by fixed ventilation within the fitted roof skylight. All roof skylights fitted by Explorer Group provide fixed free area ventilation. These roof skylights should be cleaned annually by use of a small brush to remove any dust that may have accumulated around the mesh fitted. On some roof skylights the mesh can be easily removed to aid cleaning. On fan-assisted roof skylights it is essential that the roof skylight be switched off prior to cleaning.

LOW-LEVEL VENTILATION

Low level ventilation is provided under the front chest of drawers, except in an L-shape layout, where it can be found either in the nearside or offside bed box. The exact position can be identified via the white plastic cover used to prevent the ventilation from being obstructed. In order to clean the ventilator, remove the cover by undoing the two screws and clean using a small brush. It is essential that the cover is replaced once cleaning is complete.

SEPARATE BEDROOMS

In caravans with sleeping areas separated via a solid door, separate ventilation is required and is provided via a roof skylight at high level and a ventilator at low level within a bed box.

THERMAL INSULATION AND HEATING CLASSIFICATION

All caravans manufactured by the Explorer Group Limited are classified as Grade 2, in accordance with BSEN 1645 part 1, for thermal Insulation and heating. This will allow the Interior temperature to be maintained at 20 °C when the exterior ambient temperature is 0 °C.

YOUR MOTORHOME (WEIGHTS EXPLAINED)

Mass in Running Order
The weight of your motorhome as it leaves the factory, as new with standard fixtures and fittings, plus an allowance for driver and 90% fuel.

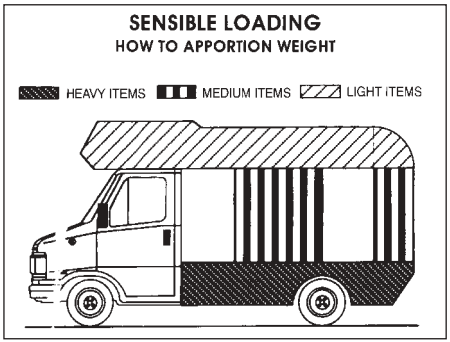
Maximum Technically Permissible Laden Mass
The maximum weight of the vehicle when fully laden for use on the road.

User Payload
The load margin (payload), this represents the difference between the Mass in Running Order and the Maximum Technically Permissible Laden Mass. It shows the maximum weight which can be loaded into your motorhome, covering items such as food, crockery, cutlery, clothing, bedding, gas cylinders, etc.

LOADING AND DISTRIBUTION OF WEIGHT IN THE MOTORHOME

LOADING

It should be noted that even weight distribution is a major factor in making your motorhome an easy and pleasant vehicle to drive. Care should therefore be taken in balancing the load, ensuring that heavy items are well



spaced and are in as low a position as possible, for example, low cupboards and bed boxes.

Do not exceed recommended maximum loading for your motorhome.

ROOF RACKS

Some models of Motorhomes are fitted with a roof rack and ladder as standard.

Care is needed when using this facility. It is recommend you exercise extreme caution when loading and unloading.

DO NOT ALLOW CHILDREN TO CLIMB ONTO THE ROOF. DO NOT EXCEED THE STATED MAXIMUM LOAD. ITEMS FITTED OTHER THAN STANDARD EQUIPMENT WILL DEPLETE THE PAYLOAD STATED IN THIS HANDBOOK.

ROOF LOADING

All Motorhomes have a specially designed roof rack system fitted or available as an optional extra. The roof of each motorhome is strengthened to accommodate the roof rack, however, the strengthened area only relates to that contained within the roof rack area, and to step beyond this area may cause damage to the roof. The roof rack is capable of withstanding the average persons weight e.g. 12 stone/76 kgs.

Static roof loading or top box loading should be limited to a maximum of 75 kgs, or the limit set by the top box manufacturer, which ever is the lower figure.

PREPARING FOR THE ROAD

UNDER NO CIRCUMSTANCES WALK ON THE OVER CAB SECTION.

Calypso Roof Loading
On the Calypso model the roof loading area extends only to the roof light, to step beyond the roof light line may damage the roof and cause personal injury.

Roof loads should be evenly distributed and securely fastened, but care must be taken not to over-tighten straps or ropes to the point where roof rails or brackets may become distorted, particularly as during braking and cornering, forces exerted by straps or ropes are greatly increased. It is also worth noting that when carrying heavy or large objects on the roof, the vehicles handling may change due to the resultant displacement of the centre of gravity and the increased area exposed to the wind.

BEFORE MOVING OFF

Whenever making a journey with your motorhome, either setting off on holiday or returning home, it is good practice to run through this simple checklist.

1. Close and secure all cupboards and drawers and check any loose articles. Do not store tins, bottles, etc. in overhead lockers.
2. Close and secure all windows and roof lights.
3. Leave all curtains and blinds open to aid rear visibility.
4. Check that gas cylinders are securely fastened and turn off all gas appliances, also ensure that the gas locker door is securely fastened.
5. Switch off 240 volt supply at source, disconnect mains cable and store in an appropriate place.
6. Check that the battery is secure and that the battery box lid is fastened.
7. Ensure the fridge is on 12V operation and door lock is set. (Note: the electrical relays will allow the fridge to be run on the vehicle battery when the engine is running.)
8. Remove any external fresh water connections etc.
9. Make sure any heavy articles are stored in accordance with the loading procedure. Tables should also be made secure.
10. Lock the motorhome exterior door (remember to take out your keys).
11. Check your external rear view mirrors and adjust if necessary.
12. Check that all corner steadies are wound up and that, if a step is used, it is put away before moving off.

PULLING OFF

Engage the clutch smoothly.

Avoid wear and tear on clutch and transmission by taking extra care.

Change gears smoothly.

Try not to jerk the clutch.

MOTORHOME HANDLING

Do not bump kerb with wheels.

When passing other vehicles allow more than the normal clearance.

Allow longer to get up speed to pass. Do not suddenly swing out.

Carry out all manoeuvres as smoothly as possible.

Use nearside wing mirror to check motorhome has cleared when overtaking.

MOTORWAY DRIVING

Speed Limits (UK)
Where a speed limit is not in force, your motorhome can be driven up to 70mph on motorways and dual carriageways.

1. Reducing Speed:
   i) In high or cross winds.
   ii) Downhill.
   iii) In poor visibility.
2. High sided vehicles cause air buffeting so extra care must be taken when passing or being passed. As much space as possible should be given.

CHANGING A WHEEL

1. Ensure handbrake is applied and chock the wheel diagonally opposite the wheel to be removed.
2. Remove the hub cap.
3. Use wheel brace to slacken off wheel nuts on the wheel to be changed.
4. Position jack at the appropriate jacking point (see vehicle handbook).
5. Jack up the motorhome until the wheel for removal is just off the ground.
6. Remove the wheel nuts and remove the wheel.
7. Fit spare wheel and reverse the above procedure.
8. Tighten wheel nuts in the order and in accordance with the vehicle handbook instructions.

WARNING:
Ensure the wheel is of the same construction and size as the one that has been removed.

BICYCLE RACKS

Following the recent trend toward the fitting of bicycle racks to the rear panel of motorhomes we should like to point out the weight distribution problems associated with such fitments.

We would advise you to carry a maximum of 75 kgs on the bicycle rack provided this does not exceed the bicycle racks own weight limit. The motorhome must also be balanced to take into account the new weight distribution. Weight must be distributed evenly.

SAFETY & SECURITY

SECURITY

FORD ALARMS/DEAD LOCKS BEWARE:

BEWARE:

When leaving your motorhome with the double locking/alarm activated, and the rear body alarm activated. On your return if you enter the rear main conversion door and deactivate the body alarm the cab dead locks and alarm remain active. No alarm will sound from the cab until you place the key in the ignition and turn.

Once this happens the only way to stop the alarm is to open the window, insert the key into the lock from the outside and open the lock. Make sure that the dead locks are deactivated when occupying the main body. Read page 29 in your Ford Transit handbook that explains this.

MINDER

Your motorhome is fitted with MINDER, the security scheme operated by HPI Limited.

During manufacture, an electronic tag is concealed in the motorhome body carrying a unique Motorhome Identification Number. This number links to the vehicle identification number so there is a double record matching chassis to motorhome body.

The MIN number is also recorded at other parts of the vehicle as a further deterrent.

All police forces in the UK can obtain equipment which can read MINDER electronic tags, aiding identification in the event of theft and subsequent recovery.

All MIN numbers are recorded on the HPI MINDER Enquiry Database for the police, dealers and potential buyers to check the correct ownership details.

SERIAL NUMBER

Record your motorhome serial number (which can be found stamped on a plate fixed beneath the motorhome door or pillar), and your cab chassis serial no. (which can be found on a plate under the bonnet). Make a note of this number in the space provided at the front of this handbook and make a separate note of the number to keep safe at home.

MOTORHOME THEFT

The theft of a motorhome can occur in the most unlikely circumstances; from a motorway service area, even from an owner's driveway. Secure all windows and doors when your motorhome is unoccupied even if only for a short length of time.

ADDITIONAL SECURITY

Consider fitting any device which might deter or prevent intrusion by thieves. A wheel lock prevents removal of the wheel. Window etching of the chassis number is a cost effective deterrent.

FREE CRIME PREVENTION

Advice about securing your motorhome, protecting your valuables, property marking, either at home or whilst on site, can be obtained from the Crime Prevention Officer through your local Police Station.

CHECK SITE REGULATIONS

SITING YOUR MOTORHOME

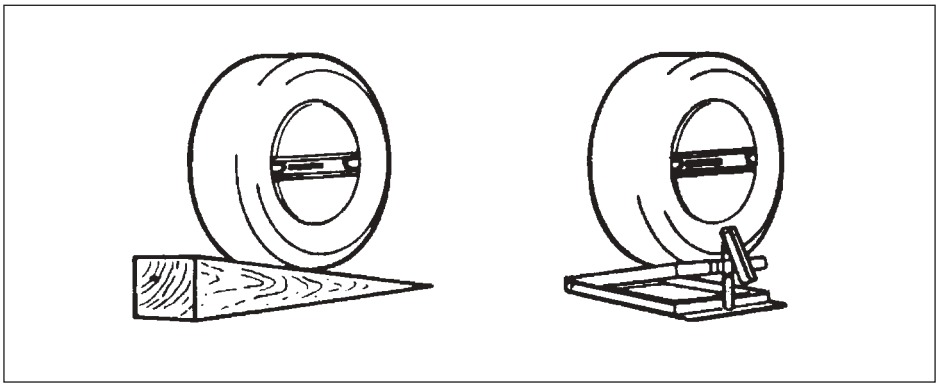
When siting your motorhome please keep to the roadways unless otherwise directed. Obey the speed limit; it should be noted that the speed limit is generally 10 mph. Only a person in possession of a current driving licence may drive on the site. It is also worth remembering that stopping distances on grass are considerably greater than on tarmac.

SELECTING A PITCH

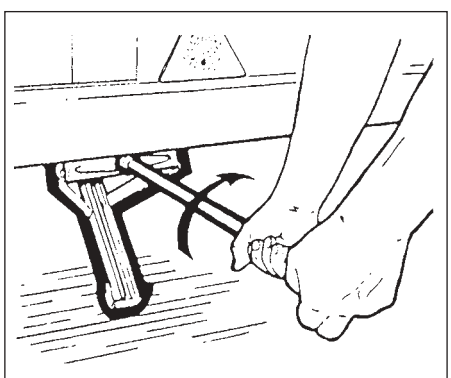
Carefully select where you wish to place your motorhome. The site should be as level as possible, preferable not under or near trees, well drained and away from possible boggy areas. Consider how you will move the motorhome when it is time to leave the site. On sloping ground it is better to pitch facing downhill, especially during the rainy season,

LEVELLING

It is important that the motorhome is correctly levelled to ensure the correct working of the refrigerator, cooker, etc. Use ramps or levelling devices to raise the lower wheels.
Wind down the rear corner steadies (if fitted) onto load spreaders (blocks of wood a minimum of 6 inches (15.25cm) square) taking care not to lift the motorhome.



NOTE: Corner steadies are NOT wheel jacks.



CONNECTING SERVICES - WATER

WATER

Comet Elegance submersible water pump is supplied with each motorhome. Connection to the motorhome is made utilising either a Carver Compact or a Carver Crystal 3 water system. To determine which model you have, please refer to the equipment chart contained in your **Owner's Information Pack.**

Ensure all taps are in the off position and the 12v water pump switch, located on the electrical control panel, is off.

USING A WATER CONTAINER

(not supplied)
For either water system, fill fresh water container and place in a suitable position. Place waste water container under main drain valve.

Place the submersible pump into the fresh water container, ensuring it is fully submerged before operating the system (see figure 3).

USING THE CARVER WATERLINE

(direct connection to mains supply unit)

This item is not supplied with every model.

Connect the Carver Waterline hose to the mains unit on the pitch. (The end without the valve connects to the mains unit).

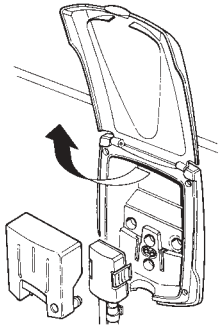


Fig. 1

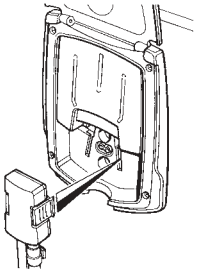


Fig. 2

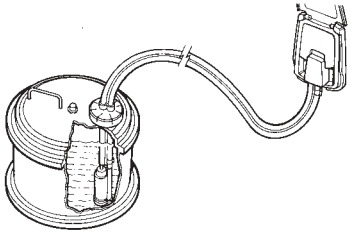


Fig. 3

CARVER CRYSTAL 3 WATER SYSTEM OPERATION

Raise the crystal filter housing lid (see fig. 1). Clean both the water socket and the power supply terminals for the pump. It is advisable to lubricate the water inlet using vegetable oil (this reduces the friction between the '0' ring and the plastic surface).

Plug the pump assembly into the housing ensuring that it is pushed fully home (see fig. 2).

To remove the pump from the crystal housing, press the two clips in at either side of the pump plug and pull.

Do not remove by pulling the electric cable or the hose.

CHANGING THE FILTER CARTRIDGE

When inserting a new filter cartridge into the housing, smear vegetable oil on the two '0' rings. (This reduces friction and makes it easier to remove).

It is recommended that the filter cartridge is replaced after 30 days of use.

To remove the filter cartridge pull the tab on the bottom of the filter, which will release the filter from the housing (see fig. 4).

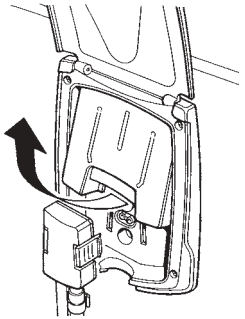


Fig. 4

Always ensure that the new filter cartridge is pushed fully home into the housing.

CARVER COMPACT

Connect the fresh water hose directly to the Carver Compact inlet.

Finally put the “pump” switch on the control panel to “on” and turn the cold tap on until water flows.

Prior to operation of the water heater, ensure water is flowing from hot tap.

GAS

Your motorhome is designed to operate using either propane or butane liquefied petroleum gas at 30m/bar. Gas can be obtained from your motorhome dealer.

Your motorhome is designed to accept a maximum 2 x 7.5kg gas bottles.

TYPES OF GAS

BUTANE

Butane is supplied in the U.K. in Green or Blue bottles. All these have a male left hand thread except for Camping Gaz, which has a special female right hand, Calor, 7.5 kg and 15 kg bottles have a special clip-on connection.

Continental bottles usually have a male left hand thread similar, but not identical, to U.K. butane.

Butane is suitable for use at temperatures down to 2°C but will not work below that.

PROPANE

Propane is supplied in red, or partly red bottles which have a female left hand threaded connector.

Scandinavian countries use the same connector.

Germany or Austria supply propane with a male connection.

Propane will work at temperatures as low as -40°C and is therefore suitable for all winter caravanning.

CONNECTION

Make sure that heating, cooking appliances and gas cylinders are switched off.

Ensure the correct regulator for the gas chosen has been connected to the gas bottle.

The regulator is a governing device which adapts the bottle pressure to one that suits the equipment in the motorhome.

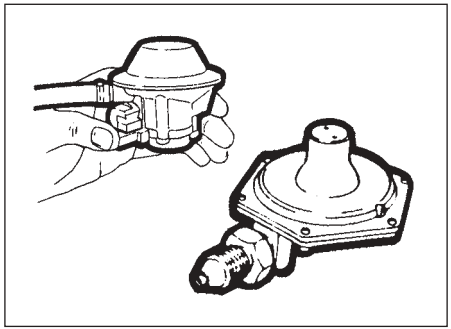
It is recommended that the regulator valve should be fitted with an over-pressure release valve to 150m/bar.

Note: Regulator valves should always be in the ‘OFF’ position when towing.

HOSES

Low pressure flexible hoses with a maximum length of 700mm should be fitted between the pressure regulator and the rigid pipework.

CONNECTING SERVICES - GAS



Hoses should be made from Neoprene, which is black, and should conform to BS 3212. Rubber hosing should never be used.

It is strongly recommended that a jubilee clip is used to secure the hose to the rigid pipework in order to prevent accidental removal.

GAS SAFETY ADVICE

Regularly check flexible gas hose, joints and connections for tightness. Finally make sure that each gas appliance is working efficiently to the recommendations of the appliance manufacturers.

FACTS ABOUT LPG

LPG is not poisonous. Bi-products are harmless. LPG is dangerous if all air and oxygen is excluded.

(Ventilation holes must be clear at all times).

LPG has been given a smell by the manufacturers in order to identify leaks.
The gas is heavier than air and therefore sinks to the lowest point.

WARNING:

Aerosols and highly flammable liquids must not be stored in the compartment behind, or adjacent to, any gas appliance.

Some industrial LPG appliances operate at high pressure and require a 'high pressure' regulator. This often has an adjusting handle on it. NEVER use such a regulator on a motorhome.

AWNING SPACES LPG APPLIANCE EXHAUST

There is no danger of pollution of an enclosed awning space from the LPG exhaust from a refrigerator venting into it.

Space heaters may produce sufficient exhaust to pollute the awning space, if it is totally enclosed, from a general comfort, smell and hygiene point of view. In extreme cases there could be a build up of carbon dioxide to a dangerous level.

Motorhome owners are advised to allow some fresh air circulation in the awning space when such appliances are in use.

PRECAUTIONS

a) Never look for a leak with a match. Always use a soap solution or its equivalent when testing connections. Do not operate any electrical apparatus whatsoever, especially light switches. If the leak is not obvious, the motorhome should be evacuated and qualified personnel consulted,

b) Avoid naked flames when connecting or changing a cylinder.

c) Check the flexible hose frequently.

ROOF-MOUNTED FLUE INSTALLATIONS

All flue installations should be inspected once a year throughout their length for corrosion. Flues should be replaced if any sign of perforation is found. Ensure that the replacement is of an approved type.

Avantgarde 100

CONNECTING SERVICES - ELECTRICITY

ELECTRICITY
MAINS SUPPLY

Your motorhome's main electrical installation is designed to run on a 230v 50hz a.c. supply.

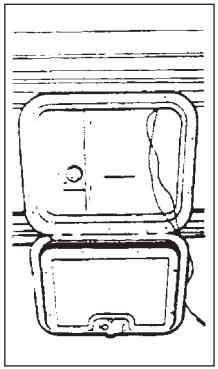
ON ARRIVAL AT CARAVAN SITE

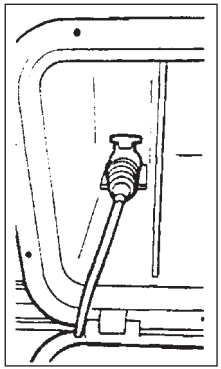
1. Before connecting the motorhome installation to the mains supply, check that:
   (a) the mains supply is suitable for your installation and appliances, i.e. whether it is a.c. or d.c. and whether it is at the correct voltage and frequency.
   (b) your installation will be properly earthed. Never accept a supply from a socket outlet or plug having only two pins, or from a lighting outlet.
   (c) any residual current device (earth leakage circuit breaker) in the mains supply to the motorhome has been tested within the last month.

In case of doubt, consult the site owner or his agent.

2. **MAKE SURE THAT THE SWITCH AT THE SITE SUPPLY POINT IS OFF AND THAT ALL ELECTRICAL EQUIPMENT IN THE MOTORHOME IS SWITCHED OFF.**

3. Remove any cover from the electricity inlet provided on the motorhome, and insert the connector of the supply flexible cable obtained from the site owner.





4. Remove any cover from the socket outlet provided at the site supply point, and connect the plug at the other end of the supply flexible cable to this. Switch on the main switch at the site supply point.

Note: If you wish to use any 12v appliances, you must turn on the battery charging unit on the control panel.

IN CASE OF DIFFICULTY CONSULT AN APPROVED ELECTRICAL INSTALLATION CONTRACTOR (WHO MAY BE THE LOCAL ELECTRICITY BOARD). IT IS DANGEROUS TO ATTEMPT MODIFICATIONS AND ADDITIONS YOURSELF.

LAMPHOLDER-PLUGS (BAYONET- CAP ADAPTORS) SHOULD NOT IN ANY CIRCUMSTANCES BE USED.

ON LEAVING CARAVAN SITE

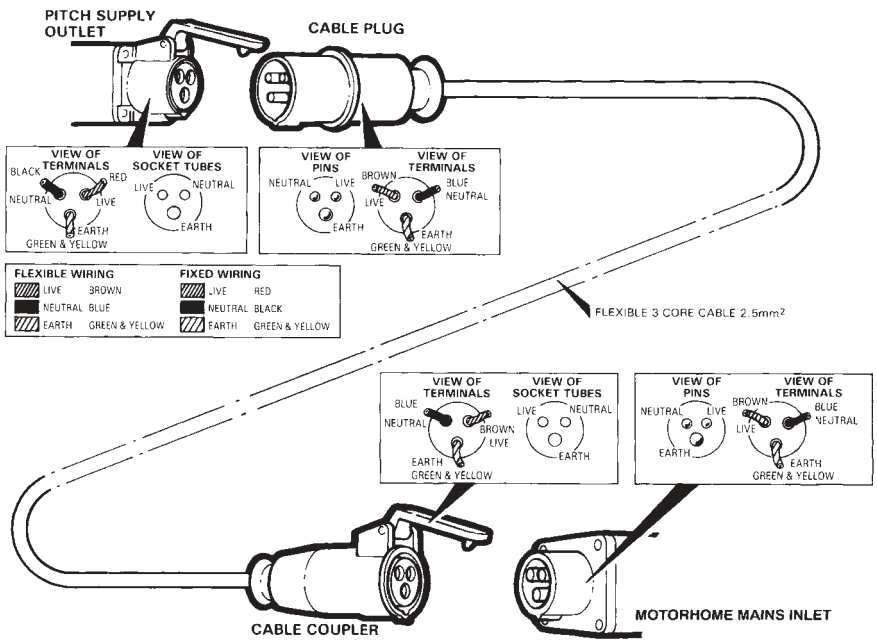
5. Reverse the procedure described in Paragraph 3 and 4 above.

IT IS IMPORTANT THAT THE MAIN SWITCH AT THE SITE SUPPLY POINT SHOULD BE SWITCHED OFF, THE SUPPLY FLEXIBLE CABLE DISCONNECTED, AND ANY COVER REPLACED ON THE SOCKET OUTLET AT THE SITE SUPPLY POINT. IT IS DANGEROUS TO LEAVE THE SUPPLY SOCKET OR SUPPLY FLEXIBLE CABLE LIVE.

PERIODICALLY

6. Preferably not less than once a year, the motorhome electrical installation should be inspected and tested and a report on its

WIRING OF CONNECTING CABLE AND MOTORHOME MAINS INLET



WARNING

IT IS ESSENTIAL THAT CONNECTIONS ARE MADE EXACTLY AS SHOWN. IF TERMINAL MARKINGS ARE NOT IN ACCORDANCE WITH THE ABOVE DIAGRAM THEY MUST BE IGNORED.

condition obtained as prescribed in the Regulations for Electrical Installations, published by the Institute of Electrical Engineers.

Note: Connection to a mains voltage supply OVERSEAS requires particular attention.

Care must be taken when connecting supplies abroad since the supplies can be of REVERSE POLARITY.

The significance of REVERSE POLARITY is that when equipment is switched off it may not be electrically isolated.

The only certain way of making equipment safe is to unplug it.

A means of checking the polarity of the mains supply when overseas is useful.

There are available several proprietary makes of equipment for the purpose.

If it can be achieved, it is preferable to connect live to live, and neutral to neutral to maintain full electrical protection.

CHECK all motorhome equipment is set-up to accept the site supply before actually switching on.

CONNECTING SERVICES - ELECTRICITY

MAINS UNIT

The Mains Unit replaces the conventional fusebox. Similar, but larger ones are often fitted in new houses.

The unit gives overload and earth leakage protection for the 230v electrical supply in your motorhome.

For normal operation all switches on the unit need to be in the ON position. The switches on the left of the unit are known as M.C.B's (miniature circuit breakers).

These take the place of the conventional fuse but are more convenient.

In the event of a fault the M.C.B. 'trips' i.e. automatically moves to the OFF position.

After elimination of the fault the M.C.B. can be re-set by switching to the ON position. (Against the spring pressure in an upwards direction),

If an earth fault develops, or a person was to touch a live piece of equipment, the leakage of current to earth should immediately operate the ROD (residual current device) and 'trip' the main switch, to the OFF position.

This switch is only re-settable after elimination of the fault.

To re-set, operate the switch as for M.C.B's.

Periodically the RCD should be checked by operating the test button marked 'T'. The unit should immediately switch to the OFF position. If the unit does not switch off then a qualified electrician should be consulted.

If the unit does switch off, the test is complete and the switch can be re-set restoring the supply back to normal.

Note:
It is possible that all of the 230V mains electrical equipment may not be able to be operated simultaneously. A typical UK motorhome site mains hook up point provides a maximum output of 10 amps and on some continental sites the available output may be as low as 5 amps. If your loading exceeds the site supply it may trip the site circuit breaker. Please check the available mains output with your site operator.
The following items need to be added together if used simultaneously.

230V Mains equipment typical consumption figures:

Fridge	0.50 amps
Charger	0.50 amps
Water heater	2.75 amps
Blown air heaters	4.80 amps
Colour TV	2.50 amps
Microwave	10.00 amps
Air conditioning	4.00 amps

12V ELECTRICAL SUPPLY

N.B. The information provided in this Guide relating to fitted equipment is only intended as a quick reference. Comprehensive details of maintenance and fault finding charts where appropriate can be found by referring to the accompanying manufacturers' literature. If any doubts still exist about the operation of the equipment qualified personnel or your motorhome dealer should be consulted.

It is recommended that you fit a sealed-for-life auxillery leisure battery.

Note:
Charging the motorhome battery from the towing vehicle is automatic.

Your motorhome will be fitted with either a Power Centre II or BCA Leisure charging and power distribution unit.

Please note that any drop in voltage coming in will reduce the output.

WARNING:
Under no circumstances should a fuse of different size or rating be fitted. Should a fuse blow for any reason the fault must be diagnosed before replacement.

THE POWER CENTRE II SYSTEM (P.C.II) (SUNSEEKER)

The Power Centre II (P.C,II) function is to control and protect the motorhomes 230 volt AC mains circuits and provide 12 volt charging and distribution circuits. The P.C.II can be found behind the space heater in each motorhome. Housed within each P.C.II unit are:

- An all electronic battery charger/power supply.
- Automatic selection relays.
- 12 volt fuse block & mains RCD with 2 MCBs.

Access to the operation of these devices is gained by lifting the transparent plastic door on the unit upwards.

The power supply can be removed from the P.C.II by removing the fuses and then the front cover (4 cross headed screws) and unscrewing the 4 battery charger fixing screws. The 12 volt +ve and -ve connections simply pull off.

A built in battery charger in conjunction with a 12 volt battery supplies the 12 volt circuits via the DC output fuses numbered 2-6. Output is via the 12 pin and 15 pin sockets.

CAUTION!

- As with all types of transformer/power supply a certain amount of heat is generated, this will vary with the charge rate, therefore adequate space and ventilation **must** be provided and maintained around the unit to aid cooling.
- Keep all flammable materials and aerosols well away from this appliance and other sources of heat, as this could cause the pressure in the aerosol to rise. Should a seal then fail it is possible an explosion will ensue.
- **N.B.** Remember any work, replacing parts or repairs, **must only** be carried out when the mains supply has been disconnected, and **only** by a qualified electrician.

CONNECTING SERVICES - ELECTRICITY

CONTROLS

The mains protection devices are located to the right hand side of the unit, and consists of a 25 amp RCD (Residual Current Device) which will rapidly break the mains circuit should a fault occur.

At the left hand side of the RCD are two MCBs (Miniature Circuit Breakers) which protect the individual mains circuits within the motorhome against overloading. Situated above the RCD is an illuminated ON/OFF switch which turns the Battery Charger/Power Supply ON or OFF.

The remaining item is the 12 volt fuse assembly, the six blade type fuses protect individual 12 volt circuits within the motorhome, and are marked with their function to the left hand side. To remove the fuses simply pull forward away from the P.C.II and push in to replace. The fuses fitted in the P.C.II are a similar type to fuses fitted to modern cars and can be 'borrowed' from the car in an emergency.

AUTOQUEST/AVANTGARDE BATTERY CHARGER/POWER SUPPLY

The battery charger is an all electronic switch mode power supply, capable of providing 12 amps continuously at 13.8 volts DC. The unit is designed to be used as a very efficient battery charger when a battery is in situ and the motorhome is connected to mains supply (it cannot overcharge the battery even when left connected for long periods of time) or as a power supply when no battery is connected providing the power to operate the equipment within the motorhome.

R.C.D. TEST BUTTON

This should be operated at regular intervals in order to check and ensure effective operation of the facility. See label fitted adjacent to the P.C.11 unit in your motorhome and also the following RCD/ MCB section.

RCD/MCB PROTECTION

These components are designed to give both overload and earth leakage protection for the electrical supply in your motorhome. The MCBs are better described as mechanical fuses. In the event of an overload situation, the circuit they supply is automatically switched to the OFF position. After elimination of the fault the MCB should be reset by manually switching the switch back on again in an upward direction against the spring pressure.

Normally these MCBs should be left in the ON position.

The RCD is fitted to provide protection against earth faults and possible electric shock. In the event of an earth fault which would cause a current leaking to earth, either directly or via the human body, the unit should immediately trip and switch OFF the supply. After elimination of the fault it will be possible to manually reset the RCD to the ON position by switching the switch in an upward direction against the spring pressure, and so restore the supply again.

Periodically it is necessary to test the operation of the RCD. This is achieved by ensuring that it is switched in the ON position with an electricity supply connected and by pressing the test button marked 'T'. The unit should immediately switch to the OFF position. Provided this happens all is correct and the switch should be returned to the ON position, upwards and against the spring pressure, to restore the supply back to normal. The RCD also acts as the main switch for the unit and if it is required to switch off all circuits in the motorhome this can be achieved by switching the RCD to OFF.

FUSES

Replacement fuses must be made only with fuses of equivalent values, and of the same type as the originals. Correct values of each fuse are clearly marked on them.

CAUTION
NEVER USE A FUSE OF HIGHER RATING THAN THAT STATED.

REVERSE POLARITY

When connecting mains supply abroad, the supply can be of reverse polarity. The significance of this is that when equipment is switched OFF it may not be electrically isolated. The only certain way of making sure equipment is safe is to unplug it.

There are several proprietary makes of equipment to check the polarity of mains supply. This equipment is useful, mostly for mains connection when overseas.

If reverse polarity occurs on site then reverse the live & neutral connections inside the plug on your mains cable. Check before use.

If it can be achieved, it is preferable to connect live to live, and neutral to neutral to maintain full electrical protection.

GENERATORS

When using a generator to supply the P C.II ensure that the actual output voltage does not exceed the rated generator output voltage, and the rated input voltage of the P.C.il, otherwise internal damage to the P.C.11 unit could occur.

N.B. Refer to the manufacturer's instruction book before use.

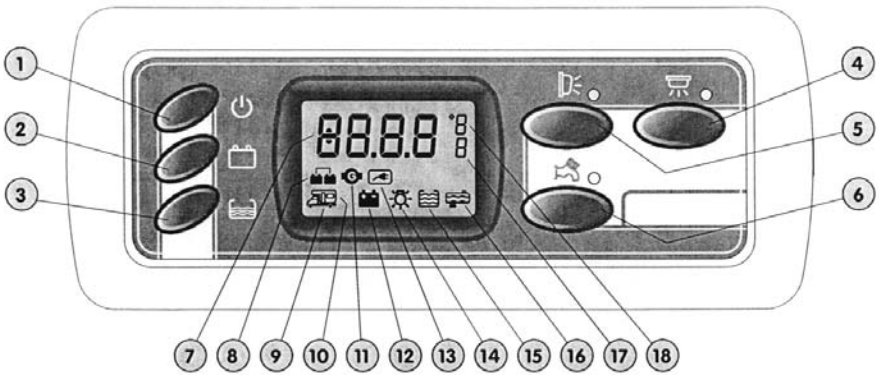
CAUTION: Take care **not** to expose the battery to sparks or naked flames as explosive gases may be present.

N.B. As with mains supply, switch off all appliances and lights before disconnecting the battery.

CONTROL PANELS

Your Explorer Group motorhome will be fitted with one of the following electrical control panels.

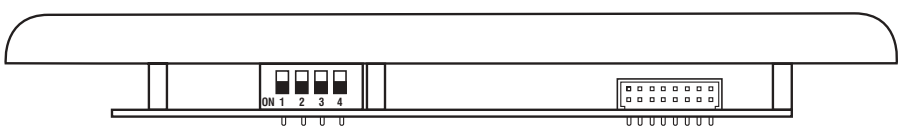
AUTOSTRATUS/CASTAWAY CONTROL PANEL "PC-200"



1) Main switch (see minimal voltage control).
2) Test button to check the voltage of the car (B1) and leisure (B2) battery.
3) Test button to check the level in "%" of the drink water tank. 4) Lights main switch.
5) Awning light switch, it switches automatically off when you start up the engine.
6) Water pump switch.
7) Digital displaying of the required test.
8) It shows the starting up of the battery parallel when the engine is started.
9) It shows the car (B1) battery test, the blinking means run-down battery alarm.
10) It shows the leisure (B2) battery test, the blinking means run-down battery alarm.
11) It shows the battery recharging through engine alternator.
12) It shows the test or alarm batteries together with the symbols 9 or 10.
13) It shows the connection to the 230V net.
14) It shows that the minimal voltage device has switched on.
15) It shows the drink water tank test, the blinking means empty tank alarm.
16) The blinking shows the full waste water tank.
17) It shows the unit of measure: U=Volt, I=Internal temperature, E=External temperature.
18) It shows the temperature unit of measure.

DIP-SWITCH POSITION

Attention: Do not change the position as shown in figure.



SUNSEEKER CONTROL PANEL

SWITCHES - AUX/VEH

When the switch is in the 'veh' position the motorhomes' 12-volt system is powered from the vehicle battery. When it is in the 'aux' position it is powered from the motorhomes' auxillary battery or the 12-volt charger/power supply if the motorhome is connected to a 230-volt supply.

It is recommended that the motorhome is used in the 'veh' position sparingly as prolonged use without running the engine could flatten the vehicle battery.

LIGHTS

Switching either of these switches on (position 1) will cause some lights in the motorhome to come on. Only those lights that are not independently switched will come on.

AUX

Switching the 'aux' switch on (position 1) will provide a 12-volt supply to the axillary socket in the motorhome.

PUMP

The pump switch acts as a master switch for the water system. When the switch is on the water pump will provide water for the sink units and shower on demand. Should the pump keep cutting in and out during the night, then turning the pump off will disconnect the 12-volt supply to the pump.

As the toilet flush works independently of the pump switch, the flush can still be used with the pump switch in the off position.

INDICATOR LIGHTS

PUMP RUN

Adjacent to the pump switch is the 'pump run' indicator light. When the pump switch is on and the pump is running this green light should be on. When the pump is not running the light should not be on.

WASTE FULL

On the right hand side of the panel is the 'waste full' indicator light. When the onboard waste tank is becoming full and requires emptying this red light will come on. Once the tank is empty the light will go out.

MULTIFUNCTION DISPLAY

CLOCK

On initial power up the display will show the time:- 0.00 and the '.' will flash.

To reset the clock, press the button marked 'mins'. This will advance the minutes. When the minute before the one required is reached, release the button. The clock will advance one further minute. To set the hour repeat as for the minutes using the 'hrs' button.

BATTERY VOLTAGE

When the 'battery voltage' button is pressed the green LED light at the side of the button will illuminate and the display will show the voltage in volts.

CURRENT

Pressing the 'current' button will illuminate the LED at the side of the current button and the display will show the current taken on the 12-volt circuits.

INSIDE TEMPERATURE

Pressing the 'int temp' button will cause the LED to light at the side of the button and the display will show the inside temperatures of the vehicle, in degrees centigrade.

CONNECTING SERVICES - ELECTRICITY

EXTERNAL TEMPERATURE

Pressing the ‘ext temp’ button will cause the LED to light at the side of the button and the display will show the external temperature, in degrees centigrade.

WATER LEVEL GAUGE

Pressing the ‘water level’ button will cause the LED at the side of the button to illuminate and display the amount of water in the water tank as a percentage. This should vary between 0 - 100.

If any of the five function buttons are held the display will continue to show the function until the button is released.

SLEEP MODE

Should at any time the display become intrusive at night, by pressing the ‘int temp’ and ‘ext temp’ will cause the display to turn off. Pressing any of the five buttons will restore that function and then the clock.

ELDDIS AVANTEGARDE - COMPASS/AUTOQUEST CONTROL PANEL

The Avantegarde control panel consists of a gauge, three switches and two indicator lights.

GAUGE

The gauge will normally show the voltage in the vehicle or auxiliary battery depending on the position of the AUX/VEH change over switch. The gauge can also show the water level in the inboard water tank (see Water Switch).

SWITCHES

The three switches are;

Pump

The ‘Pump’ switch acts as a master switch for the internal water system. When the switch is on the internal water pump will provide water for the sink taps.

Should the pump keep cutting in and out during the night, then turning the pump switch off will disconnect the 12-volt supply to the pump.

As the external pump works independently of the pump switch, this can still be used with the pump switch in the off position.

Water

Pressing and holding the ‘Water’ switch will cause the gauge to show the water level in the fresh water tank. Releasing the switch causes the guage to return to showing the voltage.

Aux/Veh

When the switch is in the ‘Veh’ position the motorhome 12-volt system is powered from the vehicle battery. When it is in the ‘Aux’ position it is powered from the motorhome’s auxiliary battery or the 12-volt charger/power supply if the motorhome is connected to a 230-volt supply.

It is recommended that the motorhome be used in the ‘Veh’ position sparingly as prolonged use without running the engine can flatten the vehicle battery.

INDICATOR LIGHTS

There are two indicator lights on the control panel;

Run
This is the green indicator light. When the pump switch is on and the pump is running this light should be on. When the pump is not running the light should not be on.

Note: this indicator only works with the internal pump.

Waste
This is the red indicator light. When the onboard waste tank is becoming full and requires emptying this light will come on. Once the tank is empty the light will go out.

TRUMA ULTRASTORE WATER HEATER

This water heater features a dual source system of water heating powered by Liquid Petroleum Gas or 230V mains electricity. For a faster heating up period the appliance can be simultaneously operated with gas and electricity. The holding tank has a capacity of 10 litres.

WARNING:
Always fit the cowl cap when the water heater is not being operated. If there is any risk of frost and preferably each time you leave the site, the water heater should be drained leaving all taps open. Frost damage is not covered by the warranty.

The system may be fitted to a mains water supply with special adaptors which include a pressure reducer which does not allow pressure to exceed 2.8 bar.

During the initial operation of a brand new appliance some fumes are normal. These should soon disperse if the motorhome is well ventilated.

FILLING THE TRUMA ULTRASTORE

1. Check the safety/drain valve in the cold water intake is closed. The lever should be in the horizontal position (e) Fig. C.
2. Set the hot tap in either the washroom or kitchen in the open position.
3. Switch on the power for the water pump.
4. Leave the tap open to let air escape while the water heater is filling. The heater is full when water flows freely from the tap. (See Connection of Water section.)
5. It may be necessary to adjust the pressure switch on the water system.

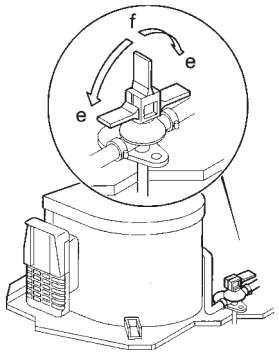


Fig. C Safety/drain valve

N.B. If only the cold water system is being used the heater tank will still be filled with water and to avoid frost damage it should always be drained as described below.

DRAINING THE WATER HEATER

1. Disconnect the water pump and switch off power supply where appropriate.
2. Open all hot and cold water taps.
3. Open safety/drain valve and leave in vertical position (f).
4. The water heater will now drain directly to the outside. If towing, it is useful to leave the drain valve open as movement of the motorhome will help to ensure that the system is completely drained.
5. Ensure that if a water filter is fitted that this is also drained as well as any water left in the submersible pump.

WARNING:
Water may be hot enough to scald.

GAS OPERATING INSTRUCTIONS
Control Panel (Gas Operation)

WARNING:
Never operate the water heater without water in it. Always remove the external cowl prior to using the water heater.

Switching on

1. Remove the external cowl cover by applying pressure with both thumbs to the illustration on the cover whilst pulling the cowl away with the forefingers.
2. Ensure the supply is turned on at the gas cylinder.
3. Select the required water temperature at the rotary control. This can be varied between 30° and 70°C.
4. Switch on the water heater at the slide switch (a) on the control panel. The green indicator lamp should light up.
5. Any air in the gas supply line may take up to a minute to clear. If the red indicator light comes on wait 5 minutes and switch on again.

Switching off

Switch the heater off using the slide switch (a), draining it if there is a risk of frost.

If the heater is not to be used for a longer period the cowl cover should be fitted to ensure that the functioning of the appliance is not impaired by water, dirt or insects. Failure to do this could invalidate the warranty. Turn off the gas supply at the cylinder.

Red indicator lamp

If this red indicator light is continuously lit this denotes a failure.

First check that gas is available from the cylinder and if, after waiting five minutes for a possible air-lock to clear, the appliance will still not operate consult your Explorer Group distributor.

ELECTRICAL OPERATING INSTRUCTIONS

WARNING:
Never operate the water heater without water in it.

The electrical water heating element is controlled by the on/off switch on the control panel. The indicator light should b illuminated when the panel is on.

N.B. The water temperature is not adjustable using the mains heating element. The temperature is set at 70°C. Mains and gas operation can be used together for faster warm-up.

MAINTENANCE

The water heater should be serviced annually during the routine motorhome service.

REPAIRS

Repairs should only be carried out by qualified personnel as the warranty will be void if unqualified persons attempt repairs. Only original Truma parts should be used.

DE-SCALING

Introduce wine vinegar into the water system and allow time for it to react with the scale then flush out thoroughly with fresh water.

HYGIENE

The water tank in the Truma Ultrastore is made of high quality stainless steel, however, in order to avoid colonisation of micro-organisms the tank should be heated up to 70°C (with electrical heater) at regular intervals. Water from the hot tap should not be used for drinking.

FUSES

The water heater fuse is on the electronic control unit on the heater.

IMPORTANT Only replace the miniature fuse on the p.c.b. with a fuse of the same type: 1,25 AT EN 60127-2-3 (slow action).

SAFETY

There is no danger of exhaust gas pollution in awning spaces from water heaters which vent into them but it is advised that fresh air circulation should be provided and any window immediately above the flue outlet should be kept closed.

WARNING:
Water heaters (as with other appliances) should be turned off and gas cylinder valves closed whilst the motorhome is in motion.

STERILISING THE SYSTEM

At the start of the season or if the motorhome has not been used for some time sterilise the water system thoroughly by preparing about 10 litres of water, containing a sterilising agent made specially for the purpose. This should be available from your Explorer Group distributor. When an on-board tank is fitted ensure that sufficient mixture is prepared to fill the whole tank.

DO NOT use domestic bleach, camden tablets or sodium metabisulphide.

Pump about half of the solution through the system, opening all taps in turn and leave for not longer than 30 minutes. Pump the remainder through. Drain the water heater and water tank (if fitted) then pump at least 18 litres of fresh water through the system again opening all taps in turn, then drain again.
Similar attention should be paid to the hygiene of the external water container and submersible pump and hose used to draw off water.

DO NOT use water which has stood in a water container for any length of time and do not use garden hoses for filling tanks.

WATER FILTER (where fitted)

Replace the in-line filter cartridge with a new one after sterilising the water system. On no

account should the old cartridge be used again as the sterilising agent will have saturated the filter bed.

After fitting the new filter flush the system for around 30 seconds to remove any loose particles of carbon. It is recommended that a new filter is fitted at the sort of each season after sterilising the system and again after approximately 30 days usage as the filter becomes less effective after this period.

On no account should the old cartridge be used again as the sterilising agent will have saturated the carbon bed.

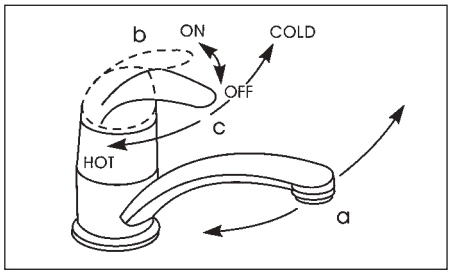
TAPS

WHALE 'ELITE' MICRO SWITCH TAPS (FITTED IN CALYPSO ONLY)

The micro switch taps are used when the water supply is not pressurised. When the tap is turned on the micro switch (which is fitted inside the tap) activates the pump to supply water.

OPERATION

Swivel the tap spout (a) to the desired position over the sink, lift the control lever (b) to activate the pump and allow water to flow simultaneously. To adjust the temperature swivel the lever (c) to the left or right as shown below.



CLEANING

It is recommended that a non-abrasive damp cloth is used for cleaning the Elite Tap/Shower. **Microswitch Replacement:** A microswitch replacement kit is available (ref. MT8000).

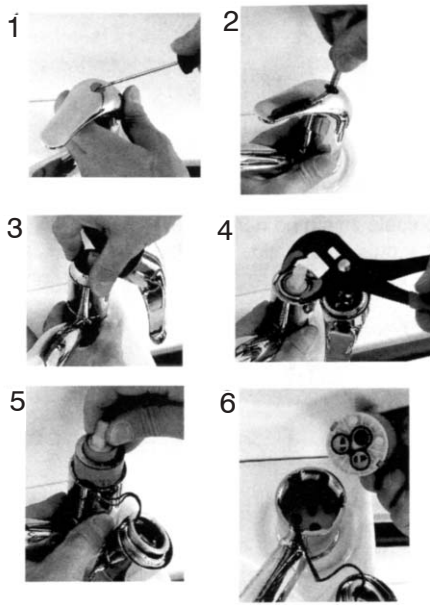
NOTE: Before commencing microswitch replacement ensure instructions are read through thoroughly. The entire process can be completed without the need to remove the tap from the worktop.

BEFORE YOU START

1. Ensure pump is isolated.
2. Position lever in central, i.e. mixer, off location.

MICROSWITCH REPLACEMENT

1. Carefully remove lever cap. A recess at the back of the lever cap is provided to assist with this.
2. Remove screw with No. 2 Pozi screwdriver. Note the position of the lever at this stage.
3. Lift off the lever.
4. Note the position of actuator before removal. Flange should be facing forward.
5. Remove actuator.
6. To remove shroud, squeeze clips with one hand and slide shroud off with other hand.
7. Remove microswitch, using finger and thumb, pull up and outwards.
8. Slide wire terminals off microswitch.
9. Attach replacement microswitch and relocate. Note: Ensure microswitch snaps fully home.
10. Before relocating shroud ensure wires are neatly located in the front groove as shown.
11. Replace shroud. Note: Ensure shroud locating rib is aligned with the rear groove of tap and snap fully home, ensuring clips are retaining the shroud.
12. Replace actuator in position noted in 4 above.



13. Replace lever and fix with screw. NOTE: Do not overtighten screw.
14. Replace lever cap.

Please consult your dealer if in difficulty. If they are unable to solve the problem, contact Whale Customer Services: tel: 01247 270531 ext. 211 or 213.

OPERATION

These taps are operated by turning the separate hot and cold taps. To get the desired water temperature turn on both hot and cold taps.

PLEASE NOTE

A. When only the hot water tap is turned on the temperature of the water can be very high.
B. For winter storage the taps must be left in the fully open position.

MICRO-SWITCH REPLACEMENT

The micro-switch on the Whale taps can be located by removing the base plate by undoing the 4 fixing screws. The micro-switch can then be replaced by following the Whale instructions contained in your Owner's Information Pack.

CLEANING OF ALL TAPS

It is recommended that a non-abrasive damp cloth be used for cleaning the Elegance taps and showers.

REICH TAPS AND SHOWER (FITTED IN AVANTGARDE/SUNSEEKER AND AUTOSTRATUS/CASTAWAY)

THE KERAMIK 'MONO' TAP

The Keramik 'Mono' tap (Fig. 1) is a single flow tap (hot or cold) controlled by a lever which is rotated anti-clockwise to turn on. The housing is made from high quality plastic.

THE KERAMIK 'TWIST' MIXER TAP

The Keramik 'Twist' mixer tap (Fig. 2) is a single lever mixer tap, The flow is governed by lifting and lowering the lever. Temperature is controlled by rotating the lever anti-clock wise allowing cold water to flow first followed by further rotation to obtain hot water. The water

temperature is regulated by the amount the tap is turned. By removing the tap nozzle, a shower attachment with a 1/2 inch thread, can be screwed on.

THE KERAMIK 'COLOR' TAP

The Keramik 'COLOR' tap (Fig. 3) is a single-lever mixer tap. The volume of water is controlled by lifting up the control lever. Moving the lever anti-clockwise increases the water temperature whereas turning it clockwise will produce cold water.

THE 'CHARISMA' TAP

The CHARISMA' tap (Fig. 4) is a single-lever mixer tap. The volume of water is controlled by lifting up the control lever. Moving the lever anti-clockwise increases the water temperature whereas turning it clockwise will produce cold water.

STYLE 2000 MONO-MIX

The Mono-Mix (Fig. 5) is a single lever controlled mixer unit which is mounted through a table or work surface. Hot and cold water are supplied independently to the inlet of the unit, under the work surface and mixed water delivered through a single outlet pipe to the tap or shower. When the control lever is rotated (90° from OFF to fully 'ON') a microswitch operates the water pump to pressurise the water system. The degree of lever movement, in an anti-clockwise direction, determines thetemperature of the water. The volume of water is controlled by the tap or shower head being used.

THE 'CARINO' SHOWER UNIT

The shower (fig. 6) is a chromed handset and flexible pipe on a wall mounted, chromed tubular, height adjustable, fitting. Adjustment is by pressing the button on the end of the sliding shower carrier. The shower is removable for hand held operation.

PRESSURISED WATER SYSTEM PUMP

Fresh water is supplied to the motorhome from an external water container by the Carver Crystal Filter System which consists of a socket located near the battery box, on the offside of your motorhome and a separate plug-in pump assembly, The socket is protected by a hinged lid which should be kept shut when the pump is not connected. The lid is easily opened by gripping the lower edge and pulling outwards. The separate plug-in pump assembly consists of a submersible pump, hose and plug. The plug provides connection to both water supply to the motorhome and 12 volt DC electric power to the pump. A dust cover is fitted to the connecting dual hose to prevent contaminants falling into the water container.

PRESSURE SWITCH

In most modern motorhomes the water system is pressurised. When a tap is closed pressure of water builds up in the system. At a predetermined level, the pressure will operate a "pressure switch" which in turn will stop the pump running. Opening a tap will reduce the pressure and the pump will start running. At normal flow rates the submersible pump should operate continuously - but at low rates the pressure switch will cycle on and off to maintain back pressure in the system, an adjustment to the switch's diaphragm sensitivity is required. This also may be required, usually because the power supply voltage has varied by more than ± 0.5 volts. The possible causes are:

1. Battery drainage through normal use.
2. Setting the switch when on mains electric supply (typically 230 volts) then using a 12 volt battery.

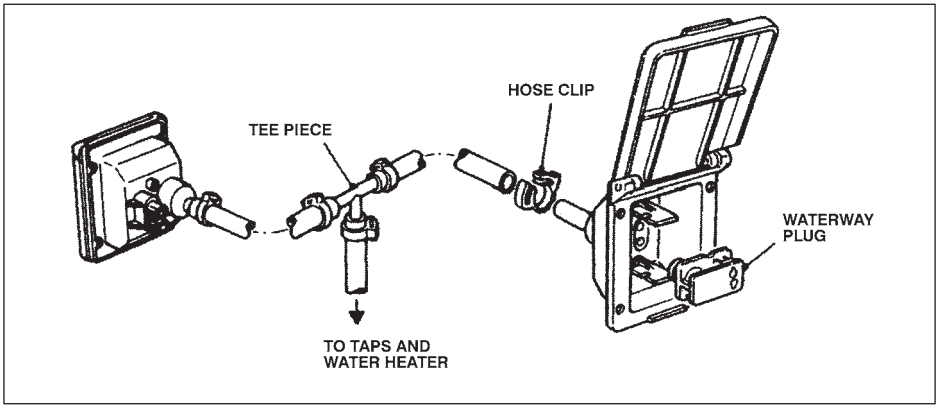
3. Setting the switch when on 12 volt battery then using mains electric supply (230 volts).

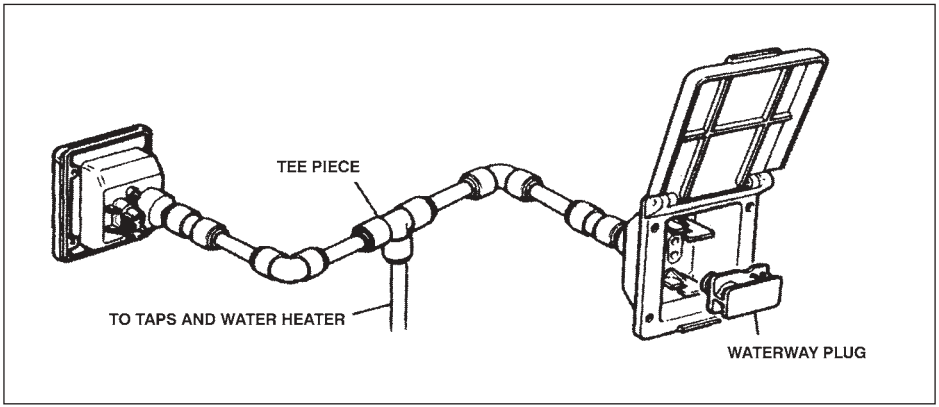
TO ADJUST THE PRESSURE SWITCH:

1. With the system properly primed, close all taps and showers.
2. Leave the pump run switch (located on the 12 volt distribution panel) turned on.
3. Tighten the adjusting screw clockwise. The pump should now be running.
4. Partly open one cold tap to allow water to flow at about 1 pint in 15 seconds.
5. Slowly loosen the adjusting screw, by turning anti-clockwise, until you can hear the micro-switch start to click. The diaphragm will then be properly adjusted.

NOTES

1. **Never allow the pump to run DRY.** Always ensure that the pump is submerged in the water or the life of the pump will be reduced.
2. Do not allow the pump, the water container or the water system to freeze in the winter. Always drain the system at the end of the season.
3. Clean the water system at the start and the end of the season with a sterilising fluid,





e.g. Chempro SDP or similar. Then flush the system through with clean water for approximately 30 seconds.

4. If the pump fails to deliver water, the most likely cause will be air in the system. Switch off the pump and shake the pump assembly in the water. Then switch on again.

WATER FILTER SYSTEM

CARVER CRYSTAL 3 FILTER SYSTEM

The Carver Crystal 3 Filter is designed to bring water into your motorhome in a convenient and efficient manner. The system includes a special two-stage filter which removes unpleasant tastes, smells and colouring to give clear, fresh tasting water.

The first stage is a filter screen which retains small solids. The second stage is a bed of silverised activated carbon, which removes chlorine tastes and smells, etc. This is done by absorption and by mechanical filtration reducing algae and bacteria. Bacteria retained are then destroyed by the silver content. This action also prevents bacteriological growth in the filter.

The Carver pump is detached from the crystal housing for security and whilst touring.

CHANGING THE FILTER CARTRIDGE

When inserting a new filter cartridge into the housing, smear vegetable oil on the two '0' rings. (This reduces friction and makes it easier to remove.)

It is recommended that the filter cartridge is replaced after 30 days of use.

To remove the filter cartridge, pull the tab on the bottom of the filter, which will release the filter from the housing (see fig. 4).

Always ensure that the new filter cartridge is pushed fully home into the housing.

STERILISING

When cleaning the water system at the start of the season it is recommended that a new filter cartridge is fitted.

WINTER USE

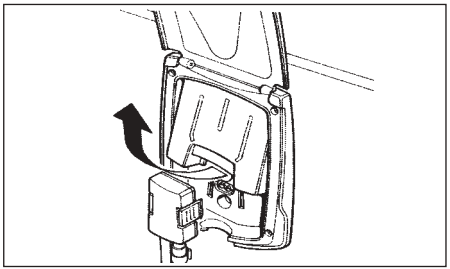
In the winter there is a possibility that the water in the outside container will freeze, therefore please discuss with your dealer the fitting of a winterisation kit.

CARVER COMPACT

On the Compact Water Filter System Housing, raise the lid, clean both the water socket and the plug of the pump assembly.

Plug the pump assembly into the socket. Turn the top security clip anti-clockwise and the bottom security clip clockwise to lock the plug in place.

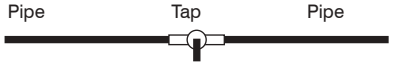
Place the pump into the water container, ensuring that it is fully submerged before operating the system. A dust cover is available to stop contaminants falling into the water.



DO NOT REMOVE BY PULLING THE HOSE OR ELECTRIC CABLE.

HOW TO USE A WATERLINE WITH THE INBOARD WATER TANK.

1. Place the pump switch on the control panel to the 0 position.
2. Place tap next to the tank into the centre position. See diagram below.



3. Connect waterline to water inlet on side of caravan.
4. Turn on waterline
5. While the waterline is in use the pump switch on the control panel must remain in the 0 position.
6. Ensure that you return the tap next to the tank to the inline position when you wish to return to using the inboard tank.

REFRIGERATOR

Your motorhome is fitted with either a refrigerator or a refrigerator/freezer combination.

FOR FULL OPERATIONAL INSTRUCTIONS FOR YOUR PARTICULAR FRIDGE, REFER TO REFRIGERATOR MANUFACTURER'S INSTRUCTIONS USUALLY FOUND IN THE APPLIANCE.

When the motorhome is on the move, the refrigerator should be operated electrically, i.e. from the 12v battery in the towing vehicle and not by means of the bottled gas.

The refrigerator can be run on either 230v, 12v or LP gas. Changing between these modes of operation is carried out by means of the controls shown on the relevant control panel on the fridge.

CAUTION!
Only use one source of energy at a time.

OVEN, HOB & GRILL

Your motorhome is fitted either with a hob and grill or an oven with a hob and grill.

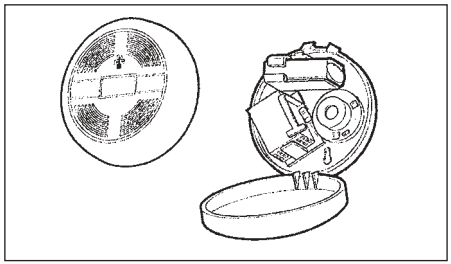
FOR FULL OPERATIONAL INSTRUCTIONS, REFER TO OVEN OR HOB & GRILL MANUFACTURER'S INSTRUCTIONS USUALLY FOUND IN THE APPLIANCE.

WARNINGS!

1. Caustic pastes, abrasive cleaning powders, coarse wire wool and hard implements will damage the surface.
2. All pans should be mounted centrally over the burners, even when cooling, to protect adjacent walls.
3. Do not lower hob cover until hobs have cooled.
4. Glass lids may shatter when heated. Turn off all burners and grill before shutting the lid.
5. Accessible parts may be hot when the grill and oven are in use. Young children should be kept away.
6. Do not use grill or oven as a space heater.

The smoke alarm fitted to your motorhome is approved for use in caravans and motor homes.

SMOKE ALARM



The National Caravan Council (NCC) requires that all new or used touring motorhomes sold by its members be fitted with a smoke alarm featuring an alarm silence facility.

WARNING!
Test smoke alarm operation after motorhome has been in storage, before each trip and at least once per week during use.

NOTE: A different smoke alarm to the one illustrated may be fitted (subject to availability) but it still meets the criteria above.

For further information on use of the alarm, battery replacement, testing, etc., refer to the manufacturer's literature contained in the Owner's Information Pack.

MOTORHOME EQUIPMENT

SPACE HEATER

Your motorhome is fitted with a Space Heater.

FOR FULL OPERATIONAL INSTRUCTIONS FOR YOUR SPACE HEATER, REFER TO MANUFACTURER'S INSTRUCTIONS FOUND IN THE OWNER'S INFORMATION PACK AND IT IS STRONGLY RECOMMENDED THAT THESE INSTRUCTIONS ARE READ THOROUGHLY BEFORE OPERATING THE APPLIANCE.

WARNING:
Aerosols and highly flammable materials must NOT be stored in the compartment behind or adjacent to the heater. Care should be taken to ensure that children are not left alone in the motor.

THETFORD CASSETTE TOILET

Your motorhome is fitted with a Cassette Toilet.

FOR FULL OPERATIONAL INSTRUCTIONS, REFER TO THE CASSETTE TOILET INSTRUCTION MANUAL IN YOUR OWNER'S INFORMATION PACK.

WARNING!

- Cold Weather Use -to prevent freezing during cold weather use, add antifreeze to the toilet system fresh water tank. Use a non-toxic (propylene-glycol) type of anti-freeze. Refer to chart on container to obtain level of protection.
- Warmer weather or longer intervals between emptying the waste tank may require additional toilet fluid. Use only Thetford toilet fluid to achieve the best results.

  CAUTION: Never add toilet fluid directly into toilet bowl.
- Do not use strong household detergents or cleaners that contain chlorine, solvents or acid contents.
- High Altitude and Hot Weather Use - with large temperature differences and changing heights during towing, over pressure can start to build up in the waste holding tank, causing contents to splash upward upon opening the valve blade if opened too fast.

AIR CONDITIONING

BLIZZARD 1500 AIR CONDITIONING UNIT

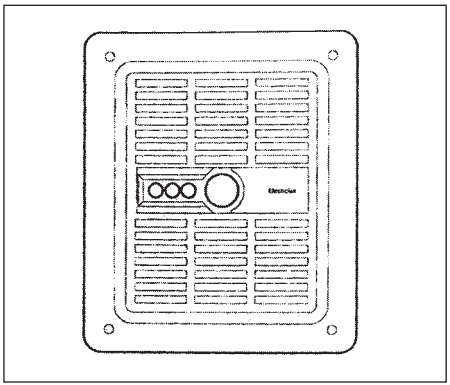
STARTING AND FUNCTION SELECTION

1. Internal temperature control thermostat.
2. Two speed fan switch.
3. On button (push to ON position).
4. To increase the cooling from the unit, turn the red/blue control knob to the blue section. To reduce the cool air, turn towards the red sector.
5. Push button '3' to switch OFF (release to OFF position).
6. To adjust airflow direction pull down the front brown vent from a small flat located in its centre.

ATTENTION!
Never obstruct the air inlets and outlets.

The air conditioning compressor runs during the refrigerating phase, if switched on and off at once it may get damaged. Therefore it is very important to wait at least 3 minutes before attempting to switch it on again.

WARNING!
Never place your hands or other objects within the air inlet openings.



MAINTENANCE

To ensure trouble free running it is recommended that the unit be cleaned once or twice a year by a qualified service agent.

Demount the external cover, clean the heat exchangers (evaporator and condenser) with a brush or compressed air. Remove any dirt.

Check that water trap holes are not clogged.

N.B. 18 degrees centigrade is the minimum temperature that the thermostat is set to for the air conditioner to start its cycle.

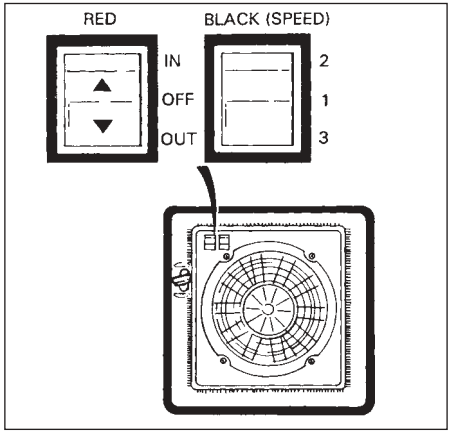
ROOFLIGHTS

Your motorhome is fitted with at least one type of rooflight.

THE OMNIVENT (12V) ROOFLIGHT

The Omnivent is a double glazed rooflight constructed from a synthetic ultra-violet screened material. Its side operating mechanism allows a completely free central opening with built-in fixed ventilation when closed.

NOTE: When the fan cover is in the closed position, it will automatically shut off the electric motor.



THE HEKI 2 ROOFLIGHT

1. **To open to the tilted position:**
   a) Press the knob in the toggle catches on either side of the glass and turn through approx. 90°.
   b) Grasp the metal bar in the middle, snap it out of its holder, swivel down and press the glass dome upwards. (Glass dome is held by the two gas springs after approx. 150mm),
   c) Swivel the metal bar towards the glass down and snap into its holder.
   d) To close the glass dome, proceed with steps (a-c) in reverse order.
2. **To open in the intermediate position:**
   a) Open the toggle catches on either side of the glass (see l a).
   b) Grasp the metal bar in the middle, snap it out of its holder, swivel down and press the glass dome outwards. (Glass dome is opened automatically after approx. 150mm by the two gas springs.)
   c) Open both fasteners and swivel the metal strap toward the intermediate position and pull the glass dome down until the metal strap is stopped by the fasteners.
   d) To close, proceed with steps (a-d) in reverse order.
3. **To open in the ventilation position:**
   a) Open the toggle catches on either side of the glass (see 1 a).
   b) Using both hands on the two toggle catches, press the glass dome up about 2cm and fasten the toggle catches in the corresponding setting.
   c) To close, proceed with steps (a-b) in reverse order.
4. **Closing the blinds:**
   a) Take hold of the end rod (without rocker) in the recessed grip and engage in the opposite end rod (with rocker).

      CAUTION: In extremely bright sunshine, the blackout blind must only be closed two-thirds, and the pane must be set in the 'continuous airing' position,
   b) Select the required position (blackout/flyscreen) by moving both joined end rods together.
5. **Opening the blinds:**
   a) Move blind (end rod with rocker) right to the outside.
   b) Hold the recessed grip with one hand; with the other hand, press the rocker and move the blind back (do not let it recoil).

- **Do not stand on the acrylic glass dome**
- **Close HEKI 2 completely before moving off**
- **Do not leave your motorhome when HEKI 2 is open**
- **Please consult your supplying dealer if you have any problems or defects**
- **Remove any snow/ice or dirt before opening the roof**
- **Do not open when it rains or when there is a strong wind**

CARE INSTRUCTIONS

Clean the acrylic glass pane with soap suds and plenty of water, or use the Seitz special cleaner.

Use talcum to care for the rubber seals.
Only use water and mild soap suds to clean the blinds.

The guarantee becomes null and void if these instructions are not followed.

BLINDS AND FLYSCREENS

BLINDS

Pull blind down by its centre catch. Do not pull down by one side of the blind. This will inevitably lead to problems. Do not allow blinds to spring back freely. Always control them by hand.

FLYSCREENS

To operate the flyscreen, either pull the screen fully down, fully up or across, dependant on type of window fitted. To release - if a cross bar is fitted, gently pull the crossbar downwards towards you and allow the tension of the spring to roll up the flyscreen. Where a cross bar is not fitted, disconnect from the blind catch and release gently.

It is recommended that blinds are in the open position whilst the motorhome is moving.

WINTERISATION

The blind/flyscreen should not be left in the down position throughout the winter as the memory of the mechanism may be lost.

DOOR FLYSCREEN (if fitted)

The exterior door flyscreen can be opened or closed from both inside and outside of the motorhome and does not restrict door openings. When opening or closing the door flyscreen use the finger grip provided which is near the centre, do not use the top or bottom as this will cause snagging or flyscreen fabric and uneven running.

N.B. Again, as with the blind and flyscreen cassettes, DO NOT allow the flyscreen to be released uncontrollably, as this will cause damage to the mechanism. Also, take care not to trap your fingers.

NOTE
Your motorhome may be fitted with flat fitting Seitz windows. The window catch is fitted with a security button and to open the window this button needs to be pressed in before the catch can be turned.

GAS BARBECUE POINT

Your motorhome may be fitted with a gas barbecue point.

The gas barbecue point, when fitted, is situated on the nearside towards the front. This point is for use with a gas barbecue only.

Simply lift up the flap, unplug the read plastic end cap and connect the appliance in accordance with the gas barbecue manufacturer's instructions.

CAUTION! Do not use a gas barbecue inside the awning. ALWAYS use the appliance in the open air.

ALARM SYSTEM (if fitted)

Your motorhome may have been fitted with a CONCEPT K.E.L. alarm system. This provides comprehensive protection for your motorhome, when parked or coupled to the tow vehicle, as well as protecting its contents. The alarm system is controlled by a simple key fob (your Motorhome comes with two key fobs as standard), which can also switch the awning lights on and off. If you insure through the Motorhome Club, K Drewe (Insurance) or Motorhome Guard Insurance you should be eligible for a discount on your insurance premiums.

PREPARATION FOR USE

The motorhome must be fitted with a 12 volt leisure battery for the alarm system to work. We recommend that you fit an antitamper battery (PP3 or MN1604 type) into the control unit. Locate the white CONCEPT K.E.L. control box, inside one of the bed boxes. Grasp firmly and slide upwards (gently 'waggling' from side to side) until it comes off its mounting plate.

Now remove the battery cover by pressing in firmly and sliding out of its case. Connect the flying lead to the battery, fit it into the space provided and replace the battery cover. Refit the control box onto its mounting plate and slide down until it 'clicks' into position.

Finally check that the key switch on the control box is turned clockwise, otherwise the alarm will not work.

THE BATTERY SHOULD BE REPLACED AT YEARLY INTERVALS. ONLY USE LEAK-PROOF PP3 (MN1604) BATTERIES.

USING THE ALARM

Whenever you leave your motorhome, switch on the alarm system by pressing the ALARM button on your key fob for 2-3 seconds. The siren will then "cheep" so you know the alarm has been activated. Should a thief trigger the alarm the siren will sound for 2 minutes and reset. On your return, switch off the alarm by pressing the ALARM button on your key fob. The siren will again "cheep" so you know that the alarm has been de-activated.

If you forget to switch the alarm off, the siren will sound instantly when you enter the living quarters or when you use the foot brake.

When the battery in the key fob is reaching the end of its life the red indicator, on the fob, will flash when the ALARM button is pressed.

The alarm can be switched off completely by inserting the key into the control box key switch and turning it anti-clockwise.

TESTING THE ALARM

Once you have switched the alarm on, any one of the following actions will instantly trigger the siren for 2 minutes or until the alarm is switched off:

- Opening the door to the living quarters.
- Using the foot-brake - ignition must be on.
- Entering the living quarters.
- When coupled, using the footbrake.

When the alarm has been triggered the appropriate LED on the control box will remain lit until you reset it with the key switch. This is a useful indicator for diagnostic and warning purposes.

PRODUCT SPECIFICATIONS

Alarm Sensors

Anti Theft Alarm	Foot-brake operation
Intruder Alarm	Sensor on living quarters door
Interior Alarm	PIR head(s)
Alarm Output	
Audible Alarm	Siren sounds for 2 minutes producing 110dB fluctuating between 2.0KHz and 2.8KHz

ANTI TAMPER FEATURES

Cutting wires to sensor on living quarters door.

Cutting wires to PIR head(s).

Battery Life

12 volt leisure battery	over 4 months continuous usage
Key fob battery	type GP23A - change if LED flashes when ALARM button is pressed.

TELEVISION & FM RADIO AERIAL

The Status omni-directional aerial is fitted to most ranges.

OPERATING THE SYSTEM

1. Plug one end of the fly lead into the rear of your television and the opposite end into the television aerial socket.
2. Ensuring that you have an electrical supply to your motorhome, switch on the aerial

power pack (located in a top locker near to where the aerial is situated) and the LED will light.

3. Check that the gain control switch on the power pack is set to normal -'NML'. This may be adjusted depending on the local television transmissions.
4. Turn on the television set and tune in. This may be necessary at all new locations.

INTERFERENCE PROBLEMS & POSSIBLE REMEDIES

1. **Weak TV Signal** - This produces a 'snowy' picture which can be caused if you are far away from the TV station or if there is a building or hill between you and the station blocking the signal. Each TV station has a defined service area where the strength of the signal is adequate to give a good reception. Beyond this boundary of the service area is a 'fringe' area where the signal will be weaker thus giving a poor quality picture. The sound from the signal is not usually affected unless the signal is very weak.

   Remedy - Check the gain control on the power pack is set to 'NML'. Check that your signal is not due to a broken or disconnected lead or poor co-axial plug connections.
2. **Strong TV Signal** - This produces a herringbone pattern type of interference which is caused when you are close to a transmitter or picking up a strong radio transmission from another source.

   Remedy - Switch the gain control on the power pack to 'LO'.
3. **Ghosting** - This is produced when the TV signal is reflecting from a building or landmark in your locality creating a double or 'ghost' image of the picture.

   Remedy - If possible try to move to a better position away from the obstruction. Generally the higher the position, the better.
4. **Electrical Interference** - This type of interference is commonly caused by domestic electrical appliances, such as fans, electric shavers, fluorescent lights, inverters, chargers, etc.

   Remedy - Turning off the offending appliance should help.

REMOVING THE AERIAL

If there are severe height restriction problems the aerial may be removed leaving only the mounting footplate.

1. Unplug the co-axial 'in' plug from the power pack.
2. Loosen the two grub screws with an Allen key.
3. Lift off the aerial dome whilst carefully feeding out the co-axial cable with the plug attached.
4. Push the opaque blanking cap into place to cover the central hole to protect from the elements,
5. To replace the aerial, simply reverse the above procedure.

DOORS

The exterior door can be secured to the side of the motorhome by pushing the button as illustrated. Release by turning in the direction shown.

To comply with European Standards, the exterior door must not be replaced with a double dead lock.

The shower room door is fitted with a two position push button lock, Push once to lock. Push again to release.

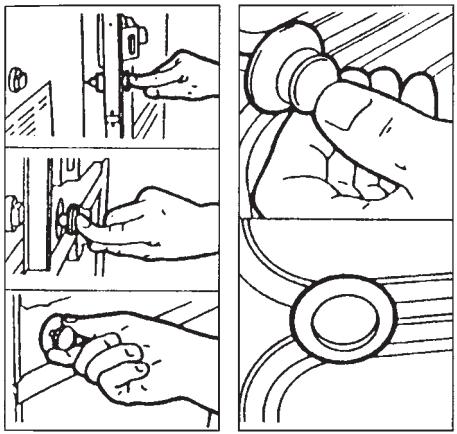
This section of the guide is devoted to the care, cleaning and general preservation of your motorhome in order to retain its showroom condition.

CARE OF YOUR MOTORHOME

CLEANING

EXTERIOR PAINTED BODYWORK

Part of the exterior of your motorhome, usually the side walls, is acrylic finished aluminium, which is extremely durable and easy to clean. It is recommended that a proprietary brand wash and wax shampoo with plenty of cold water is used.



GLASSFIBRE REINFORCED PLASTIC

GRP is a light, durable and astonishingly tough constructional material which can be fabricated into all manner of products. It may be translucent, opaque or coloured, flat or shaped, thin or thick.

The exposed surface of a GRP component on a motorhome is always a gel coat surface. This gives the laminate its colour and surface finish. The gel coats used are made to the highest standards to give optimum performance in gloss retention and UV stability.

GRP components need to be washed, waxed and taken care of like a car.

Chemicals and dirt can collect during storage, and the gel coat can be stained or marked when chemicals combine with rain or dew. Most stains or marks can be removed with mild dishwashing detergent, but more stubborn marks may require a (fine grit) rubbing compound such as T-cut.

To help keep your GRP components looking almost like new, it is wise to wash the parts monthly (or more frequently) using mild dishwashing detergent, but avoid using strong alkaline (e.g. tri-sodium phosphate) or acidic cleaners or abrasives. Waxing the components once or twice a year with a good grade paste wax will help to maintain the colour and finish.

A significant benefit of using GRP components is the ability to repair most scratches or damage that may be inflicted upon the panel. GRP components are tough, but like any other products they can be damaged. Excessive pressure or impact to the face or reverse of the component can cause the gel coat to crack. This does not mean the entire panel is damaged and the standard industry method of dealing with such a crack is to apply a minor repair.

Any scratches or nicks that occur in normal use can usually be removed with rubbing compound. If the scratch is too deep, then (fine grade) wet sandpaper may be used followed by rubbing compound and finally wax.

One of the characteristics of GRP is the way light may be transmitted through the component. If the component is viewed from the gel coat side it will appear opaque and of a solid colour. However, if viewed from the reverse side with a strong light source behind the laminate, some light will be transmitted. This is normal for components of this thickness.

ACRYLIC WINDOWS

Your motorhome is fitted with shatter resistant acrylic windows. To preserve their clarity and unblemished transparency it is essential that the following cleaning instructions are strictly adhered to:

Road grit, dust, sand, flies, lime tree secretions, bird droppings etc., should be 'swilled off' using plenty of cold water. Any remaining dirt should be washed off using a soft cloth and warm water. Under NO circumstances should any abrasive cleaning agents, household detergents or proprietary cleaning fluids be used.

Wash the window again using only cold water and dry off with a chamois leather.

NOTE: Should scratches appear on the acrylic windows these can often be removed with an acrylic polish, i.e. ICI perspex polish. Gentle polishing with a liquid metal polish, i.e. Brasso may also have the desired effect - consult your dealer BEFORE attempting to remove any but the slightest scratch.

INTERIOR WALLS

Your motorhome interior walls are finished with a vinyl coating and will only require a wipe over with a damp cloth, using a mild detergent, to keep them in a 'showroom' condition.

FURNITURE

Treat your motorhome furniture as you would the furniture in your home. Polish wood surfaces sparingly with a good quality wax or spray polish. Use a damp cloth to clean melanate laminated surfaces.

CARPETS, UPHOLSTERY AND CURTAINS

Vacuum clean carpets and upholstery to ensure a long life. Marks on cushions can be removed using a mild upholstery shampoo with the minimum of water. Curtains - check the manufacturers' label for washing instructions.

SHOWER ROOM AND WASH BASIN FITTINGS

These should be cleaned using a non abrasive household cleaner.

Always put the cold water into the wash hand basin before adding the hot in order to preserve the finish of the thermoplastic formed basin.

WATER SYSTEMS

The water systems, and in particular storage tanks, in motorhomes are susceptible to contamination by bacteria if care is not taken with their use and cleaning. The symptoms caused by bacterial contamination are not purely limited to gastro-intestinal diseases, but may also manifest themselves as ear, nose, throat, eye or skin infections. It is therefore important that you carry out the following procedure prior to using the motorhome each time, even if you boil or filter all water you use for drinking.

CONTAINERS

1. All water remaining in the container should be disposed of so that the container is empty. (If the container is an onboard tank, it should be removed is possible).
2. The outside of the container should be thoroughly cleansed and washed down to remove any dirt, dust or other contaminant. Water at a suitably hot temperature containing an appropriate detergent is recommended for this purpose.
3. Water should be put into the container, swirled round, then emptied out.
4. The container should then be totally filled with water containing an appropriate disinfectant/sterilant solution and allowed to stand for the recommended contact time (e.g. Milton for 15 minutes).
5. The solution should be emptied from the container.
6. The opening of the container should be cleaned thoroughly with an appropriate pre-prepared wipe impregnated with a disinfectant/ sterilant.
7. The container should be inverted whilst stored overnight (if possible).
8. The container must be filled with mains water only and mains water only should be used for the above cleaning procedure.

9. On no account should garden hoses be used to fill water tanks.

SYSTEMS

1. Drain down the system. (Open all taps to allow air in, enabling the system to drain quickly.)
2. Remove any water filters fitted, and replace with a short length of hose or empty filter cartridge (this will ensure the filter is not affected by the disinfectant/ sterilant solution).
3. Fill the system by using the pump with a disinfectant/sterilant solution. (Check that the solution at full strength appears at all taps/showers). Allow to stand for the recommended period of time.
4. Drain the system down completely.
5. Thoroughly clean the outside of all taps/ connectors with a cloth soaked in the disinfectant/sterilant.
6. Flush the system through with clean drinking water until no traces of disinfectant/sterilant can be detected at any tap.
7. Replace the filter,

Suitable sterilising chemicals are available from your motorhome dealer, accessory shop, chemists, or homebrew shops, It is not, however, recommended to use bleach or sodium metabisulphide.

STORAGE

If the motorhome is to be stored for any length of time, especially over the winter period, the following operations are recommended:

Remove all linens, blankets, cushions, clothes, mattresses, etc, which could be affected by damp conditions. Clean the motorhome inside and out as detailed in the previous section.

Drain off the wafer system.

Ensure all windows, roof lights and doors are correctly fastened. Check fixed ventilation apertures are not obstructed.

Check that the site you have chosen to store the motorhome is open, fairly high and dry and if possible not exposed to gales etc. If this proves impossible it is recommended that the motorhome chassis is anchored to the ground.

Jack up the motorhome (use bottle or screw jack, do NOT use the corner steadies) so that the wheels are clear of the ground. Support the motorhome axle with wooden blocks, axle stands or similar so that when the jacks are removed the wheels remain clear of the ground. Cover the tyres to prevent deterioration. Release the handbrake. Rotate the wheels at regular intervals to maintain wheel bearing lubrication. Grease the coupling and shroud in a waterproof protective cover.
SECURITY: Removing the wheels reduces the risk of motorhome theft.

NOTE: Do not work under the motorhome unless the axle is supported.

Should the motorhome be stored for a prolonged period of time it is strongly recommended that the motorhome is fully serviced before the commencement of use. Your dealer will ensure that your motorhome is safe, secure and ready for your enjoyment.

NOTE: Motorhomes stored for any length of time should not have the handbrake or brakes applied. The wheels should be chocked or wedged and the handbrake released.

AUTOSTRATUS
AUTOSTRATUS RB
Explorer

WARRANTY

THE EXPLORER GROUP LIMITED ("EXPLORER GROUP")

3 YEAR MANUFACTURERS WARRANTY

Congratulations on selecting your new Explorer Group product. Subject to the conditions set out on the following page, your purchase is backed up by a manufacturers warranty for 3 years from the date of purchase at no additional cost to you the customer.

We sincerely hope you will never have cause to complain about your purchase. However, if things do go wrong, the course of action for you is to contact your dealer and explain the difficulty you are having. We are confident they will do their utmost to resolve the problem to your complete satisfaction.

The dealer from whom the product is purchased is liable for warranty repairs. Any other approved retailer or service centre may carry out work at his own convenience and/or discretion, but is not obliged to do so.

The unexpired period of this warranty is assignable to a second and subsequent owners during the three year period at a cost of £25 payable to The Explorer Group Limited (provided full service documentation is available for inspection).

PARTS COVERED BY THIS WARRANTY FOR YEARS 1 - 3

Subject to the specific exclusions in years 2 and 3 set out below all original components of the product, including permanently fitted equipment, forming part of the manufacturers original specification.

SPECIFIC EXCLUSIONS FOR YEARS 2 & 3

Tyres, batteries, glass, exterior paint work, brightwork and all similar trim and finish. Soft furnishings. Carpets and floor coverings.

Entertainment/communication systems and connected equipment. Adjustment of blinds, hinges, catches, stays and doors. Replacement of bulbs, fluorescent tubes, fuses and electrical connections. "A" frame covers and wheel spats. Natural movement of internal doors and furniture. Normal wear and tear/servicing items and other components subject to routine maintenance.

EXPLORER GROUP 3 YEAR MANUFACTURERS WARRANTY IS OFFERED SUBJECT TO THE FOLLOWING CONDITIONS:

1. The duration of the warranty is 36 months from the date of purchase
2. That the original construction of the product has not been tampered with or repaired otherwise than by Explorer Group or an approved dealer or service centre.
3. That a service, damp and safety check has been carried out by an approved dealer or service centre at least once every year. The interval from purchase date to the first service and the intervals between services must not exceed 12 months.
4. That original VAT service invoices are retained as proof that annual inspections have been carried out.
5. No repairs should be commenced under the terms of the agreement unless prior authorisation is obtained from Explorer Group.
6. Explorer Group reserves the right to inspect the product before any repairs commence.
7. No liability will be accepted for damage caused by fair wear and tear, wilful damage, negligence, abnormal working conditions, intrusion of foreign or harmful matter, over-heating, freezing, failure to follow Explorer Group instructions, misuse or alteration or repair of the product without Explorer Group prior approval.
8. Products covered by this agreement shall not be put out to hire, reward, any other commercial use or used in any timed race.
9. That the product shall be used only for its ordinary and intended purpose and shall not be subjected to any condition which could reasonably be foreseen to cause or result in damage or excessive wear and tear.
10. That Explorer Group shall have received the completed warranty registration card within 6 weeks of purchase from new.
11. That only private cars or 4x4 type vehicles substituting as private cars, shall have towed the product.
12. That no liability arises out of this agreement for transport costs to and from the point of repair or consequential cost relating to transportation.
13. No liability arises out of this agreement for any indirect, special or consequential loss or damage (whether for loss of profit, use, contract, goodwill, or otherwise), costs, expenses or other claims for compensation howsoever arising.
14. No liability will be accepted for any accidental or fire damage or any loss incurred by accident or fire.
15. The unexpired period of the 3 year warranty is assignable to a second and subsequent owners during the 3 year period at a cost of £25 providing full service documentation is available for inspection in the event that a claim should, as set out above, be made.

This warranty does not affect the purchaser's statutory rights.

This warranty shall be governed and construed in accordance with the laws of England and the parties irrevocably submit to the exclusive jurisdiction of the courts of England.

MOTORHOME ANNUAL SERVICE RECORD

Your motorhome needs servicing at least once a year.

Whether you use your motorhome for short journeys or for touring at home or abroad, regular servicing will help to ensure that you can enjoy it to the full.

The Annual Service offered by your Dealer will include the following work and it is our recommendation you have your motorhome serviced to this standard annually.

Your Dealer will complete the record in this handbook to show the work has been carried out.

Section (A) Chassis

1. Tyres and pressures
2. Corner steadies
3. Under floor tanks
4. Spare wheel
5. Wheel boxes
6. Body to chassis fixing
7. Body to cab fixing

Section (B) Exterior

1. Exterior panels
2. Windows 3. Rooflights
4. Entrance door/door locks
5. Mouldings and trim
6. Gas locker, cylinders and regulator
7. Ventilators/flue terminals
8. Paintwork and striping
9. Roof racks and ladders

Section (C) Exterior

1. Wall panels
2. Furniture
3. Curtains/blinds/bunk nets
4 Dinette seats/beds
5. Over cab bed
6. Carpets
7. Swivel seat base
8. Doors and drawers
9. Hinges and catches
10. Ventilators
11. Water pumps
12. Hoses and connections
13. Hot water system
14. Cold water system
15. Window hinges & stays
16. Cassette toilet
17. Shower
18. Shower tray
19. Central heating
20. Damp test
21. Inboard tanks

Section (D) Electrical

1. Interior lights
2. Water pump & switches
3. Refrigerator
4. Distribution unit
5. Charging unit
6. Junction box/strip
7. Wiring & supports
8. Battery/ies
9. Fuses/Fuse holders
10. Awning light
11. Electronic ignition (hob)
12. 230V system, earth continuity
13. System check

Section (E) Gas equipment

1. Hotplate
2. Oven
3. Refrigerator
4. Space heater
5. Water heater
6. Operation of appliances
7. Leak tested

CARE WARRANTY

Your motorhome is covered by the 3 year warranty, it is a condition of this Policy that a service and safety check is carried out by your motorhome retailer at least once a year (12 months from the date of purchase) in accordance with the National Caravan Council recommendations For further information please read your policy documents.

SERVICING

ANNUAL SERVICE RECORD

MOTORHOME MODEL .....

VEHICLE IDENTIFICATION NUMBER ..... **YEAR** .....

1st SERVICE

DATE:

DEALER'S STAMP

I/We certify that an annual service has been carried out in accordance with the manufacturer's and National Caravan Council recommendations.

2nd SERVICE

DATE:

DEALER'S STAMP

I/We certify that an annual service has been carried out in accordance with the manufacturer's and National Caravan Council recommendations.

3rd SERVICE

DATE:

DEALER'S STAMP

I/We certify that an annual service has been carried out in accordance with the manufacturer's and National Caravan Council recommendations.

4th SERVICE

DATE:

DEALER'S STAMP

I/We certify that an annual service has been carried out in accordance with the manufacturer's and National Caravan Council recommendations.

5th SERVICE

DATE:

DEALER'S STAMP

I/We certify that an annual service has been carried out in accordance with the manufacturer's and National Caravan Council recommendations.

6th SERVICE

DATE:

DEALER'S STAMP

I/We certify that an annual service has been carried out in accordance with the manufacturer's and National Caravan Council recommendations.

7th SERVICE

DATE:

DEALER'S STAMP

I/We certify that an annual service has been carried out in accordance with the manufacturer's and National Caravan Council recommendations.

8th SERVICE

DATE:

DEALER'S STAMP

I/We certify that an annual service has been carried out in accordance with the manufacturer's and National Caravan Council recommendations.

9th SERVICE

DATE:

DEALER'S STAMP

I/We certify that an annual service has been carried out in accordance with the manufacturer's and National Caravan Council recommendations.

10th SERVICE

DATE:

DEALER'S STAMP

I/We certify that an annual service has been carried out in accordance with the manufacturer's and National Caravan Council recommendations.

11th SERVICE

DATE:

DEALER'S STAMP

I/We certify that an annual service has been carried out in accordance with the manufacturer's and National Caravan Council recommendations.

12th SERVICE

DATE:

DEALER'S STAMP

I/We certify that an annual service has been carried out in accordance with the manufacturer's and National Caravan Council recommendations.

13th SERVICE

DATE:

DEALER'S STAMP

I/We certify that an annual service has been carried out in accordance with the manufacturer's and National Caravan Council recommendations.

14th SERVICE

DATE:

DEALER'S STAMP

I/We certify that an annual service has been carried out in accordance with the manufacturer's and National Caravan Council recommendations.

15th SERVICE

DATE:

DEALER'S STAMP

I/We certify that an annual service has been carried out in accordance with the manufacturer's and National Caravan Council recommendations.

WARRANTY

IF YOU HAVE A "WARRANTY" PROBLEM

We sincerely hope you will never have cause to complain about your motorhome. However, if things do go wrong, the course of action for you is to contact your dealer and explain the difficulty you are having. We are confident they will do their utmost to resolve the problem to your complete satisfaction.

The dealer from whom the motorhome is purchased is liable for warranty repairs. Any other approved dealer may carry out work on a motorhome at his own convenience or discretion, but is not obliged to do this.

Your motorhome is supplied to you with a 3 year warranty valid from the date of purchase except when otherwise stated.

The manufacturers are not responsible for travelling costs incurred returning a caravan to a dealer for warranty repair. This also applies to consequential loss, i.e. earnings incurred.

The warranty is not extended to cover motorhome which are let out for hire or reward.

You will need to retain proof of servicing (invoices) in the event of a warranty claim.

It is a condition of your warranty that your motorhome is serviced annually by an approved Explorer Group dealer or service centre.

HOW TO MAKE YOUR BEDS

If you have any difficulties in msking up your bed matress then please contact the cusomter services department at the explorer group.

AUTOSTRATUS/CASTAWAY	
FRIDGE	RM 6505
HEATER	TRUMA S 3002A AUTO
INTERNAL BLOWN AIR SYST	TRUMA ULTRAHEAT
WATER HEATER	TRUMA ULTRASTORE 10LTR
SINK & DRAINER	SPINFLO ARGENT
OVEN UNIT	MIDI PRIMA
HOB UNIT	SPINFLO ARGENT
TAPS KITCHEN	REICH CHARISMA
SHOWER EQUIPMENT	REICH AT MIXER
TAPS VANITY	REICH KAMA
WATER FILTER/PUMP	UNIVERSAL
LIGHTS 12V CEILING/LOCKER	CROWN / PEARL / NOVA
LIGHTS 12V READING	MICRO LIGHTS
CONTROL PANELS	CBE PC-200
ELECTRIC FITTINGS	CBE / CLIPSAL
CASSETTE BLINDS	SEITZ
TOILET	ROTATABLE C200 CWE
BATTTERY CHARGER	CBE

EQUIPMENT LIST

AVANTGARDE / AUTOQUEST	
FRIDGE	RM 4230
HEATER	TRUMA S 3002P PIEZO
INTERNAL BLOWN AIR SYST	(OPTION ONLY) TRUMA ULTRAHEAT
WATER HEATER	TRUMA ULTRASTORE 10LTR
SINK & DRAINER	SPINFLO TOP FIX
OVEN UNIT	(OPTION ONLY) CAPRICE 20 20
HOB UNIT	20 20 MINI GRILL
TAPS KITCHEN	REICH KAMA
SHOWER EQUIPMENT	REICH AT MIXER
TAPS VANITY	REICH KAMA (RETRACTABLE)
WATER FILTER/PUMP	SUBMERSIBLE / COMET
LIGHTS 12V CEILING/LOCKER	CROWN / PEARL
LIGHTS 12V READING	EYEBALL
CONTROL PANELS	BCA
ELECTRIC FITTINGS	CLIPSAL BEIGE
CASSETTE BLINDS	SEITZ
TOILET	STD ROTATABLE / CASSETTE
BATTERY CHARGER	BCA

SUNSEEKER	
FRIDGE	RM 6271
HEATER	TRUMA S3002A AUTO
INTERNAL BLOWN AIR SYST	TRUMA ULTRAHEAT
WATER HEATER	TRUMA ULTRASTORE 10LTR
SINK & DRAINER	SPINFLO TOP FIX
OVEN UNIT	CAPRICE 20 20
HOB UNIT	AS ABOVE (COMBINED UNIT)
TAPS KITCHEN	REICH KAMA
SHOWER EQUIPMENT	REICH KAMA (RETRACTABLE)
TAPS VANITY	REICH KAMA (RETRACTABLE)
WATER FILTER/PUMP	COMET SUBMERSIBLE
LIGHTS 12V CEILING/LOCKER	CROWN PEARL
LIGHTS 12V READING	EYEBALL
CONTROL PANELS	BCA 29967
ELECTRIC FITTINGS	CLIPSAL
CASSETTE BLINDS	SEITZ
TOILET	STD ROTATABLE
BATTERY CHARGER	POWER CENTRE

Elddis
AUTOQUEST

AUTOSTRATUS/CASTAWAY TECHNICAL SPECIFICATIONS 2003

		RG	RB	FB
Base Vehicle		PEUGEOT (330) 2.8	PEUGEOT (330) 2.8	PEUGEOT (330) 2.8
No. of Berths/Designated Passenger Seats		4/1	2/1	4/1
Exterior Length		7350mm (24'1.5")	7350mm (24'1.5")	7350mm (24'1.5")
Overall Width		2400mm (7'10.5")	2400mm (7'10.5")	2400mm (7'10.5")
Overall Height		2850mm (9'4")	2850mm (9'4")	2850mm (9'4")
Maximum Headroom		1975mm (6'5.5")	1975mm (6'5.5")	1975mm (6'5.5")
Interior Width		2224mm (7'3.5")	2224mm (7'3.5")	2224mm (7'3.5")
Tyre Pressure	Front	66psi	66psi	66psi
	Rear	66psi	66psi	66psi
Bed Sizes	Option 1	1 x Double 2136 x 1142mm (7'0" x 3'9") 1 x Fixed Double 2110 x 1330mm (6'11" x 4'4.5")	1 x Double 2136 x 1692mm (7'0" x 5'6.5")	1 x Double 2136 x 1447mm (7'0" x 4'9") 1 x Fixed Double 1860 x 1300mm (6'1" x 4'3")
Maximum Front Axle Weight		1900kgs	1900kgs	1900kgs
Maximum Rear Axle Weight		2100kgs	2100kgs	2100kgs
M.T.P.L.M.		3850kgs	3850kgs	3850kgs
Mass in Running Order		3300kgs	3255kgs	3292kgs
Essential Habitation Equipment		132kgs	132kgs	132kgs
Maximum User Payload		550kgs	595kgs	558kgs

3% has been added to **Mass in Running Order** prior to calculating the **Maximum User Payload. Maximum User Payload** includes **Essential Habitation Equipment,** Personal Effects, Optional Equipment and the conventional load. **Note: Please take care to ensure that you have allowed for the masses of all items you intend to carry in the motorhome. Warning: Under no circumstances must the maximum Technical Permissible Laden Mass of the motorhome be exceeded.**

AVANTGARDE/AUTOQUEST TECHNICAL SPECIFICATIONS 2003

		100	200	300	400	400RL
Base Vehicle		PEUGEOT (290SWB) 2.0	PEUGEOT (290 SWB) 2.0	PEUGEOT (290 SWB) 2.0	PEUGEOT (290 SWB) 2.0	PEUGEOT (290 SWB)
No. of Berths/Designated Passenger Seats		4/3	4/1	5/3	4/1	4./1
Exterior Length		5833mm (19'1")	5833mm (19'1")	5846mm (19'2")	5846mm (19'2")	5846mm (19'2")
Overall Width		2200mm (7'2")	2200mm (7'2")	2200mm (7'2")	2200mm (7'2")	2200mm (7'2")
Overall Height		2895mm (9'6")	2895mm (9'6")	2895mm (9'6")	2895mm (9'6")	2895mm (9'6")
Maximum Headroom		2145mm (7'3")	2145mm (7'3")	2145mm (7'3")	2145mm (7'3")	2145mm (7'3")
Interior Width		2074mm (6'9")	2074mm (6'9")	2074mm (6'9")	2074mm (6'9")	2074mm (6'9")
Tyre Pressure	Front	44psi	44psi	44psi	44psi	44psi
	Rear	44psi	44psi	44psi	44psi	44psi
Bed Sizes	Option 1	O/Cab Double 2085 x 1200mm (6'9" x 3'11") 1 x Double 1850 x 1190mm (6'1" x 3'10")	O/Cab Double 2085 x 1200mm (6'9" x 3'11") 1 x Double 2070 x 1420mm (6'9" x 4'8")	O/Cab Double 2085 x 1200mm (6'9" x 3'11") 1 x Double 1850 x 1190mm (6'1" x 3'10") 1 x Single 1830 x 680mm (6' x 2'3")	O/Cab Double 2085 x 1200mm (6'9" x 3'11") 1 x Double 2070 x 1800mm (6'9" x 5'11")	O/Cab Double 2085 x 1200mm (6'9" x 3'11") 1 x Double 2070 x 1240mm (6'9" x 4'1")
Bed Sizes	Option 2	-	-	-	O/Cab Double 2085 x 1200mm (6'9" x 3'11") 1 x Single 1880 x 700mm (6'2" x 2'3") 1 x Single 1800 x 700mm (6'2" x 2'3")	-
Maximum Front Axle Weight		1600kgs (31.4cwt)	1600kgs (31.4cwt)	1600kgs (31.4cwt)	1600kgs (31.4cwt)	1600kgs (31.4cwt)
Maximum Rear Axle Weight		1600kgs (31.4cwt)	1600kgs (31.4cwt)	1650kgs (32.41cwt)	1650kgs (32.41cwt)	1650kgs (32.41cwt)
M.T.P.L.M.		2900kgs (56.9cwt)	2900kgs (56.9cwt)	3200kgs (58.9cwt)	3200kgs (62.9cwt)	3200kgs (62.9cwt)
Mass in Running Order		2421kgs (47.55cwt)	2425kgs (47.6cwt)	2533kgs (59.8cwt)	2600kgs (51cwt)	2600kgs (51cwt)
Essential Habitation Equipment		103kgs (2.02cwt)	103kgs (2.02cwt)	103kgs (2.02cwt)	103kgs (2.02cwt)	103kgs (2.02cwt)
Maximum User Payload		479kgs (9.4cwt)	475kgs (9.3cwt)	667kgs (9.2cwt)	600kgs (7.9cwt)	400kgs (7.9cwt)

3% has been added to **Mass in Running Order** prior to calculating the **Maximum User Payload. Maximum User Payload** includes **Essential Habitation Equipment,** Personal Effects, Optional Equipment and the conventional load. **Note: Please take care to ensure that you have allowed for the masses of all items you intend to carry in the motorhome. Warning: Under no circumstances must the maximum Technical Permissible Laden Mass of the motorhome be exceeded.**

SUNSEEKER TECHNICAL SPECIFICATIONS 2003

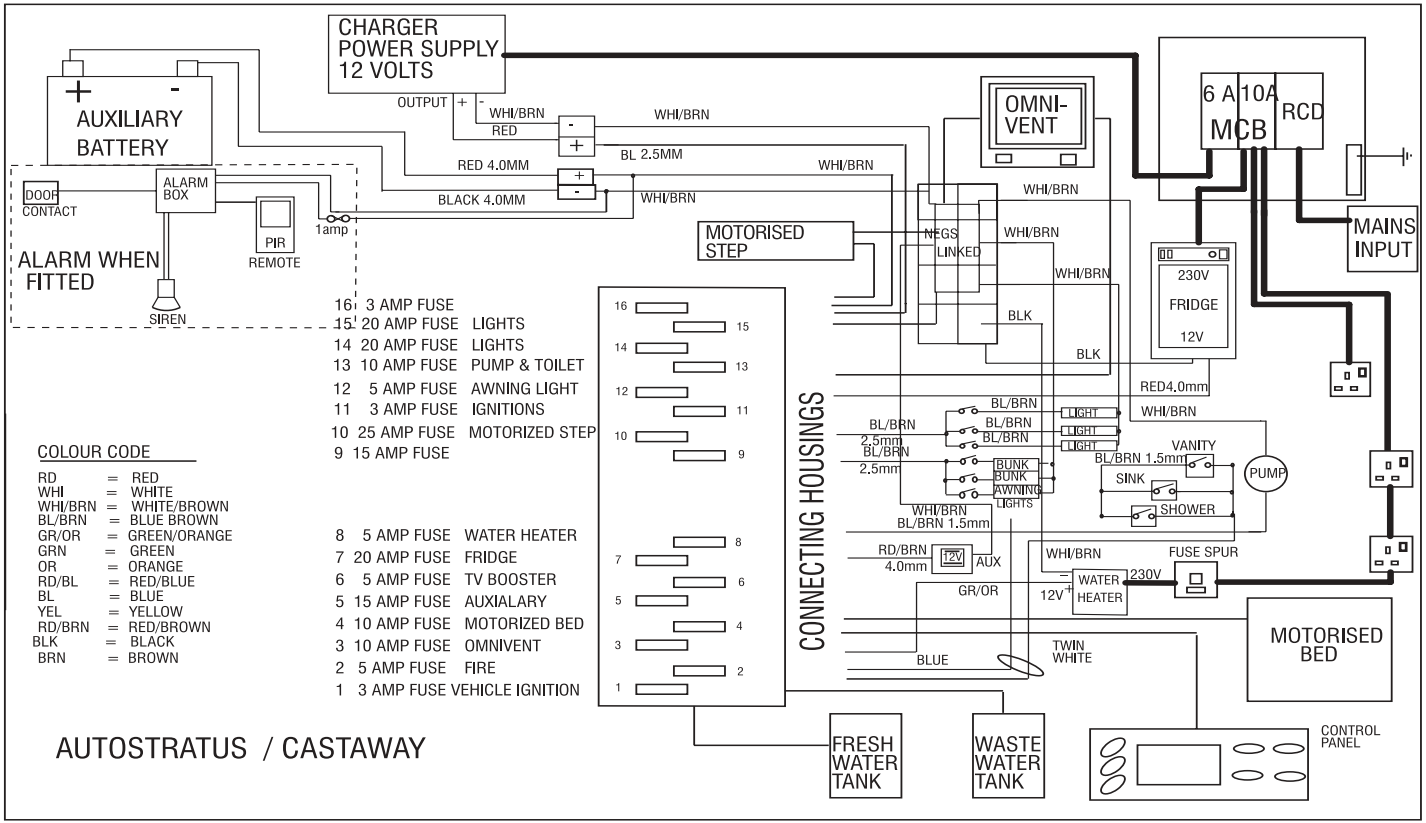
		SUNSEEKER 25	SUNSEEKER 35	SUNSEEKER 45
Base Vehicle		PEUGEOT	PEUGEOT	PEUGEOT
No. of Berths/Designated Passenger Seats		4/1	5/3	4/3
Exterior Length		5963mm	5963mm	59633mm
Overall Width		2200mm	2200mm	2200mm
Overall Height		3009mm	3009mm	3009mm
Maximum Headroom		2097mm	2097mm	2097mm
Interior Width		2074mm	2074mm	2074mm
Tyre Pressure	Front	60psi	60psi	59psi
	Rear	66psi	66psi	65psi
Bed Sizes	Option 1	O/Cab Double 2020 x 1200mm 1 x Single 1866 x 700mm 1 x Single 1795 x 700mm	O/Cab Double 2020 x 1200mm 1 x Double 1900 x 1095mm 1 x Single 1850 x 680mm	O/Cab Double 2020mm x 1200mm 1 x Single 1830mm x 1200mm - -
Bed Sizes	Option 2	O/Cab Double 2020 x 1200mm 1 x Double 2074 x 1795mm	- - -	- - -
Maximum Front Axle Weight		1600kgs	1600kgs	1600kgs
Maximum Rear Axle Weight		1650kgs	1650kgs	1650kgs
M.T.P.L.M.		3000kgs	3000kgs	3000kgs
Mass in Running Order		2630kgs	2669kgs	2681kgs
Essential Habitation Equipment		103kgs	103kgs	103kgs
Maximum User Payload		370kgs	331kgs	319kgs

3% has been added to **Mass in Running Order** prior to calculating the **Maximum User Payload. Maximum User Payload** includes **Essential Habitation Equipment,** Personal Effects, Optional Equipment and the conventional load. **Note: Please take care to ensure that you have allowed for the masses of all items you intend to carry in the motorhome. Warning: Under no circumstances must the maximum Technical Permissible Laden Mass of the motorhome be exceeded.**

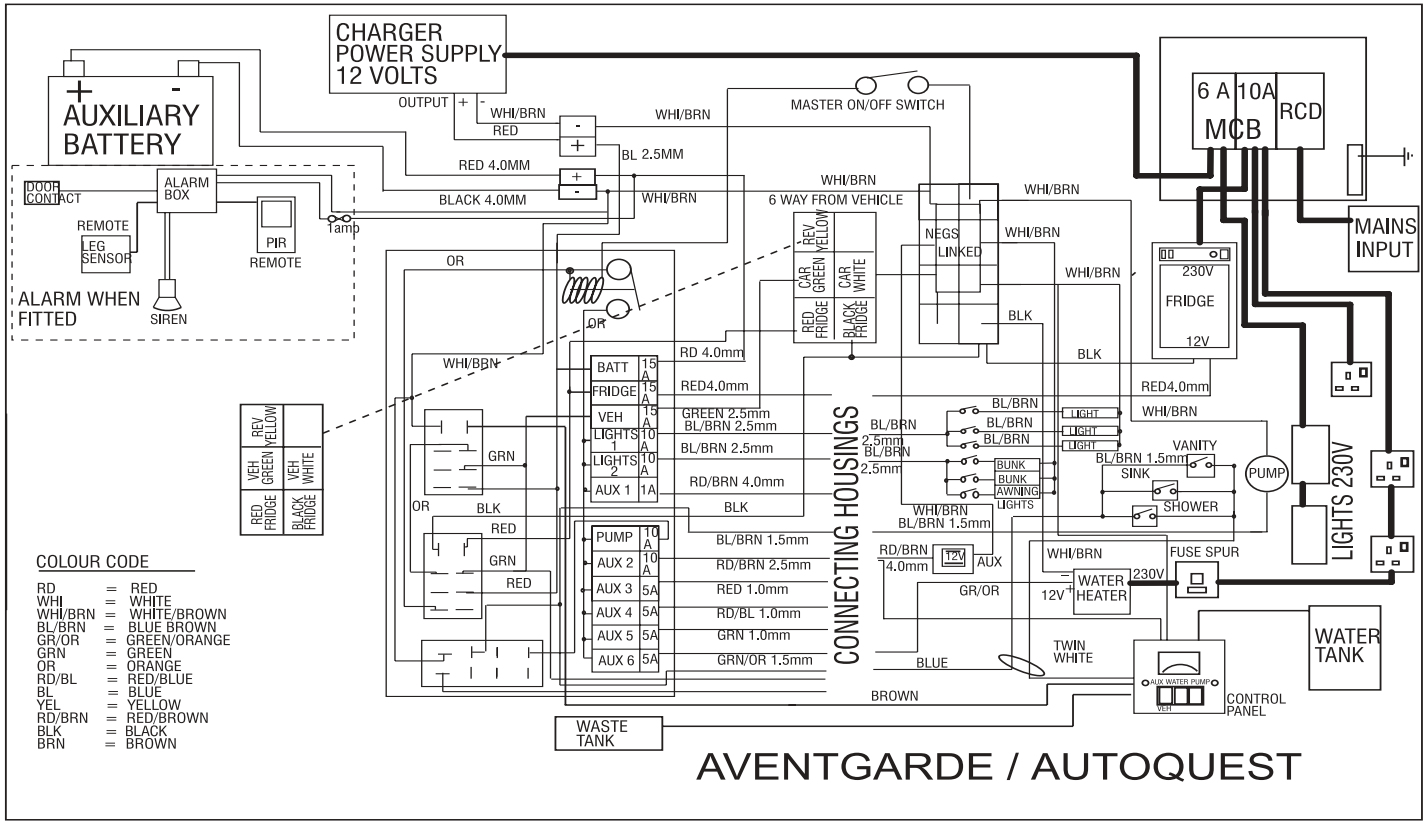
		CARAVEL	CLIPPER	COASTER	COMMODORE
Base Vehicle		FORD	FORD	FORD	FORD
No. of Berths/Designated Passenger Seats		5/3	4/1	4/1	4/1
Exterios Length		6295mm (20'8")	6832mm (22'5")	6832mm (22'5")	6832mm (22'5")
Overall Width		2360mm (7'9")	2360mm (7'9")	2360mm (7'9")	2360mm (7'9")
Overall Height		3090mm (10'2")	3090mm (10'2")	3090mm (10'2")	3090mm (10'2")
Maximum Headroom		2107mm (6'11")	2107mm (6'11")	2107mm (6'11")	2107mm (6'11")
Interior Width		2119mm (6'11½")	2119mm (6'11½")	2119mm (6'11½")	2119mm (6'11½")
Tyre Pressure	Front	3.0 bar (44psi)	3.0 bar (44psi)	3.0 bar (44psi)	3.0bar (44psi)
	Rear	4.5 bar (65psi)	4.5 bar (65psi)	4.5 bar (65psi)	4.5 bar (65psi)
Bed Sizes	Option 1	Luton Bed 1 x Double 2090 x 1170mm 1 x Double - 1 x Single 1870 x 650mm	Luton Bed 1 x Double 2090 x 1170mm 2 x Singles 1870 x 700mm - -	Luton Bed 1 x Double 2090 x 1170mm 2 x Singles (Estimated) 1 @ 1870 x 630mm 1 @ 1870 x 700mm -	Luton Bed 1 x Double 2090 x 1170mm 2 x Singles (Estimated) 1900 x 720mm - -
Bed Sizes	Option 2	- - - - -	Luton Bed 1 x Double 2090 x 1170mm 1 x Double 2119 x 1870mm	- - - - -	Luton Bed 1 x Double 2090 x 1170mm 1 x Double (Estimated) 2119 x 1420mm
Maximum Front Axle Weight	kgs	1600	1600	1600	1600
Maximum Rear Axle Weight	kgs	2200	2200	2200	2200
M.T.P.L.M.	kgs	3500	3500	3500	3500
Mass in Running Order	kgs	2803	2908	TBA	TBA
Essential Habitation Equipment	kgs	120	120	120	120
Maximum User Payload	kgs	612	505	TBA	TBA

3% has been added to **Mass in Running Order** to calculate the **Maximum User Payload.**
Maximum User Payload includes **Essential Habitation Equipment,** Personal Effects, Optional Equipment and the conventional load.
Note: Please take care to ensure that you have allowed for the masses of all items you intend to carry in the motorhome.
Warning: Under no circumstances must the maximum Technical Permissible Laden Mass of the motorhome be exceeded.

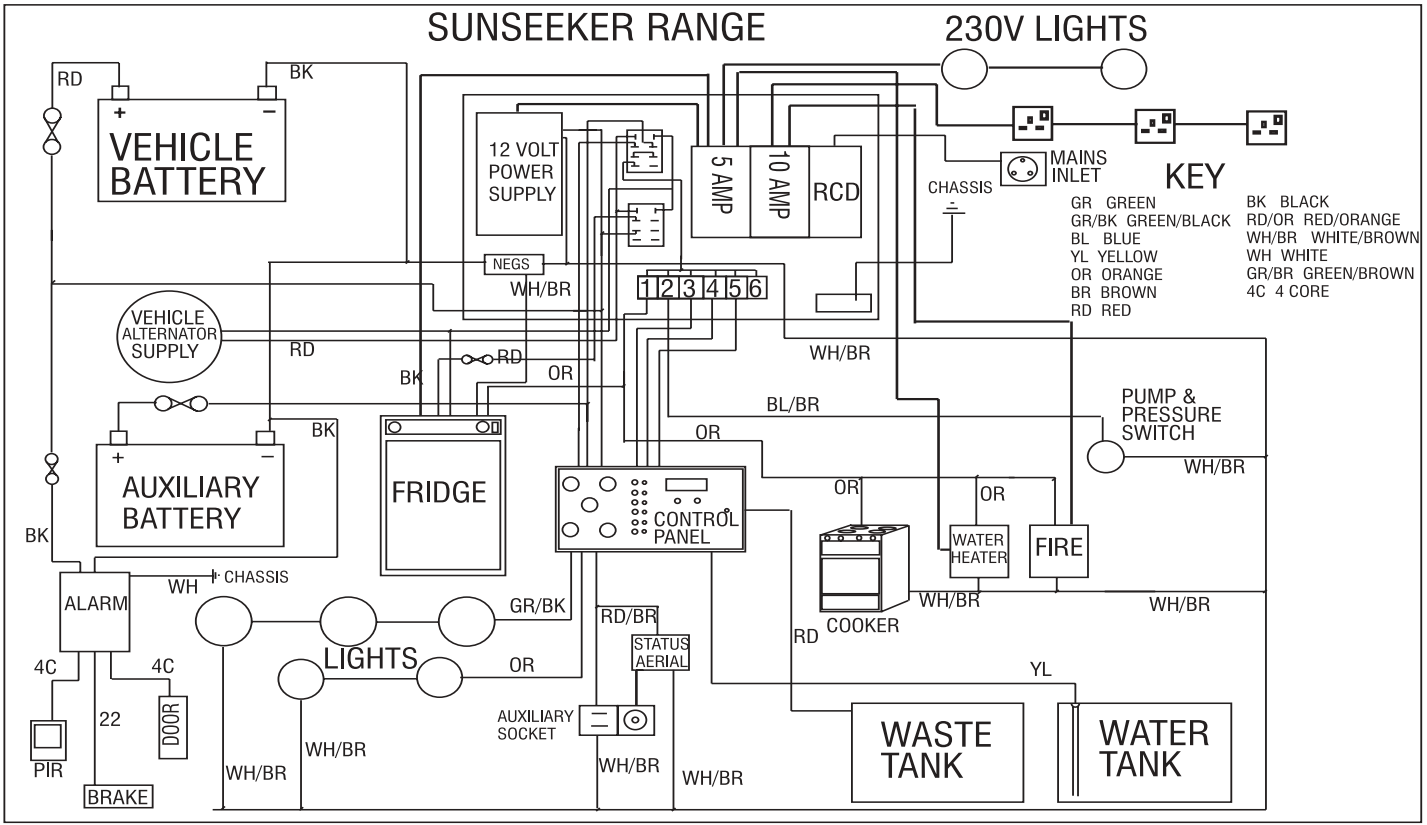
AUTOSTRATUS/CASTAWAY INTERNAL 12V & 230V WIRING



AVANTGARDE/AUTOQUEST INTERNAL 12V & 230V WIRING



SUNSEEKER INTERNAL 12V & 230V WIRING



Sunseeker

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